



General Catalog

Grigolin



General Catalog





Icon legend

PACKAGING



bag



bulk



bucket



tank



box



dual-component

MIXING



with drill



in drum



with plaster machine



with continuous mixer



mobile mixing station



continuous mixer for screeds

PREPARATION



plastic spatula



metallic spatula



sponge float



rubber spatula



toothed trowel



roll



brush/flat brush/mounted



airless



smoothing with metal / steel spatula



preparation with spatula

AREAS OF USE



exteriors



interiors



interiors/exteriors



interiors+exteriors only if properly protected



on properly protected interior+exterior pavements



on interior+exterior pavements



internal ceilings



paved interiors

DILUTION



with water



with solvent



ready for use



ready for use

APPLICATION



manual



by machine



colabile



by injection

OTHER INFORMATION



clean with water



clean with solvent



pay attention to mixing time



inserted by tintometric system



refer to the technical and safety information

PREPARATION CONDITIONS



maximal temperature



maximum air humidity content



keep from freezing

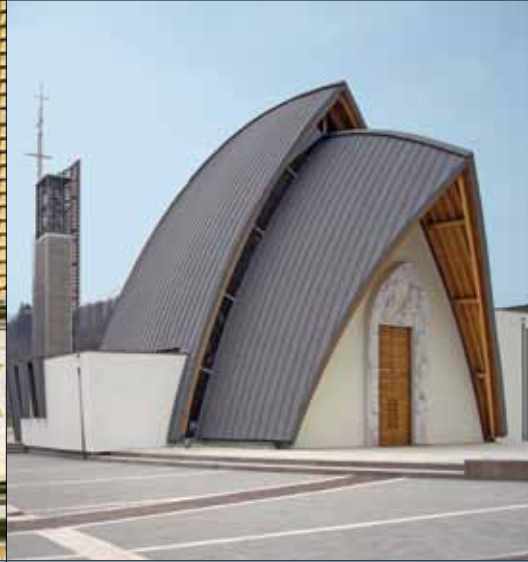


protect from direct sunlight



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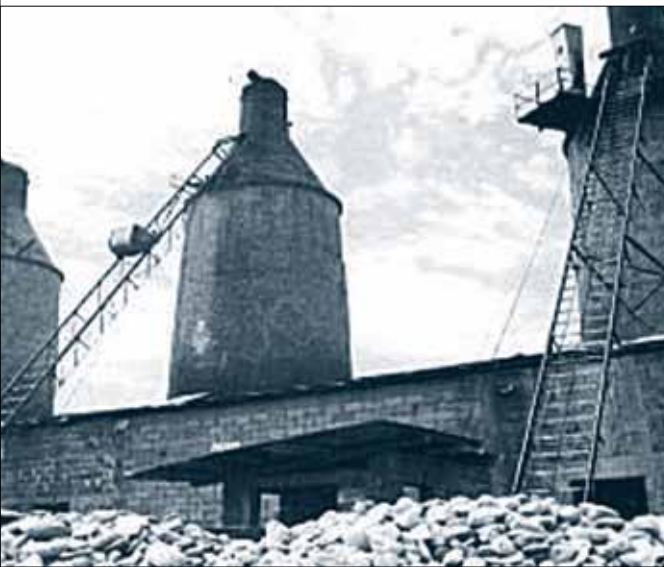
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preserving the past... building the future

Fornaci Calce Grigolin S.p.A. is now one of the most important Italian and international realities in the field of materials and technologies for construction. It has over forty years of experience gathered in construction yards and R&D laboratories and looks to the future with an aim to continuous development, product quality improvement and implementation of support services provided by qualified personnel. All with the goal of becoming the ideal partner for the players in the construction industry.

obtaining in this way the patent of the Ministry of Industry. Since 2000, Fornaci Calce Grigolin establishments begin to expand in the area: Medesano (PR), Bosco Marengo (AL), Borgoricco (PD), Zandobbio (BG), Nuvolera (BS), San Vito al Tagliamento (PN) and Colferro (Rome), the latter being the largest premix plant in Italy. Since 2002, Grigolin is also present in Germany with the opening of the Ettlingen establishment and with the acquisition in 2004 of a consortium of storage buildings, now called arteMURI GmbH. In 2006 «Grigolin SA»



The activity began in the 50s when Giobatta Grigolin invested all his savings in buying a truck to transport sawdust and river stones for many suppliers located along the river Piave. In 1963 the first Grigolin oven comes into operation. In 1974 Giobatta Grigolin is joined in the management of the company by his sons Maurizio and Roberto, who learned responsibility at

an early age. Indeed, when in 1978 Giobatta is missing, the two children take over the administration of the firm without hesitation. A few years later, the company structure is planned: Renato joined the group as the last of the four children of Giobatta and Irma, and everyone assumes precise roles and responsibilities.

The late 80s saw the birth of the production of plaster and masonry mortar, supplied directly on site by means of silo, and the deployment of

the new hydrated lime plant. In the 90s a new furnace was installed, operated on a 24-hour basis by a sophisticated central computer. At the same time starts the use of sawdust as fuel in lieu of methane by using a gentle flame cooking of the lime,

was established in Switzerland, while a new store has been opened in Slovenia. In the same year, Grigopronto service was activated, a system of equipment delivery directly on site. Also in 2006, within the Medesano (PR) establishment, Colorificio was launched: a modern and technologically advanced service, capable of offering the consumer a wide range of high quality products. The geographical expansion, technological innovation and the presence of highly qualified staff have allowed Fornaci Calce Grigolin to become a leader in the field and to express its value through:

- large systems of synergies;
- diversification and vertical integration of productive sectors;
- technological development and applied research;
- continuous attention to environmental values.





PONTE DELLA PRIULA
TRÉVISE



BORGORICCO
PADOVE



SAN VITO AL TAGLIAMENTO
PORDENONE



NUVOLERA
BRESCIA



ZANDOBBIO
BERGAME

Grigolin on the map

Grigolin Constructive Developments has gained, over the years, extensive experience in the construction industry. Its presence is increasingly rooted in the Italian territory and is expanding due to numerous manufacturing plants and warehouses. The company is able to provide products for all needs and applications in the construction sector, from new to recovering the old. The company makes use of a daily fleet of more than 600 tankers, containers and mobile concrete mixers.

FORNACI CALCE GRIGOLIN SPA

CORPORATE HEADQUARTERS
Via Bombardieri 14
31010 Ponte della Priula TV

ADMINISTRATIVE HEADQUARTERS
Via IV Novembre 18
31010 Ponte della Priula TV
Tél. +39 04384461 - Fax +39 0438445110
info@fornacigrigolin.it
www.fornacigrigolin.it

PRODUCTION FACILITIES

■ I-31010 **Ponte della Priula** TV
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Tél. +39 0438 4465
Fax +39 0438 446497/50

■ I-35010 **Borgoricco** PD
Via dell'Industria 7/A
Tél. +39 049 9335769
Fax +39 049 9338315

■ I-33078 **San Vito al Tagliamento** PN
Via Armenia 1
Tél. +39 0434 587035
Fax +39 0434 857916

■ I-25080 **Nuvolera** BS
Via Dei Marmi
Tél. +39 030 690111
Fax +39 030 69011217

■ I-24060 **Zandobbio** BG
Via S. Bernardo 1
Tél. +39 035 4274011
Fax +39 035 4274022

■ I-15062 **Bosco Marengo** AL
Via Vecchia Reale Z.I.
Tél. +39 0131 298471
Fax +39 0131 298464

■ I-27050 **Codevilla** PV
Via Strada Voghera - Genestrello
Tél. +39 0383 73596
Fax +39 0383 73596

■ I-43014 **Medesano** PR
Via Solferino - Località Ramiola
Tél. +39 0525 415110
Fax +39 0525 404374

■ I-00034 **Colleferro** Roma
Loc. Piombinara Z.I. Sloi
Tél. +39 06 97201014
Fax +39 06 97201048

■ D-76275 **Ettlingen/Karlsruhe**
Siemensstrasse26
Tél. +49 7243 71560
Fax +49 7243 715690

WAREHOUSES

● I-32037 **Sospirolo** BL - Via Masiere
Tél. +39 0437 87797 - Fax +39 0437 87797

● I-35010 **Limena** PD - Via Pierobon 26
Tél. +39 049 8842494 - Fax +39 049 8846805

● I-36071 **Arzignano** VI - Via Altura 4

● I-39030 **Vandoies** BZ - Zona Artigianale 14
Tél. +39 0472 868512 - Fax +39 0472 868621

● I-46032 **Castelforte** MN

● I-25080 **Paitone** BS - Via Italia 51
Tél. +39 030 6898700 - Fax +39 030 6896866

● I-25030 **Villa Erbusco** BS - Via per Iseo 42
Tél. +39 030 7703795 - Fax +39 030 7249949

● I-20060 **Trezzano Rosa** MI - Via Firenze 12
Tél. +39 02 92010246 - Fax +39 02 92010750

● I-16162 **Genova** GE
Via Santuario Nostra Signora Della Guardia, 70
Tél. +39 010 711502 - Fax +39 010 7260287

● I-44040 **Chiesuol del Fosso** FE
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Tél. +39 0532 978424 - Fax +39 0532 978424

● arteMURI GmbH
D-76185 **Karlsruhe** - Fritz-Haber-straße 6
Tél. +49 721 5709440 - Fax +49 721 5709444

BRANCHES

◆ D-68169 **Mannheim** - Zielstr. 12°

◆ D-69254 **Malsch** (bei Heidelberg)
Am Bahnhof 8

◆ D-77656 **Offenburg** - Heinrich-Hertz-Str. 18

◆ Grigolin SA
CH-6805 **Mezzovico** - Via Piantèd
Tél. +41 91 9228706 - Fax +41 91 9228708

◆ D-78224 **Singen** - Gaisenrain, 5

◆ D-88045 **Friedrichshafen** - Anton-Sommer-Str. 6



CODEVILLA
PAVIE



BOSCO MARENGO
ALEXANDRIE



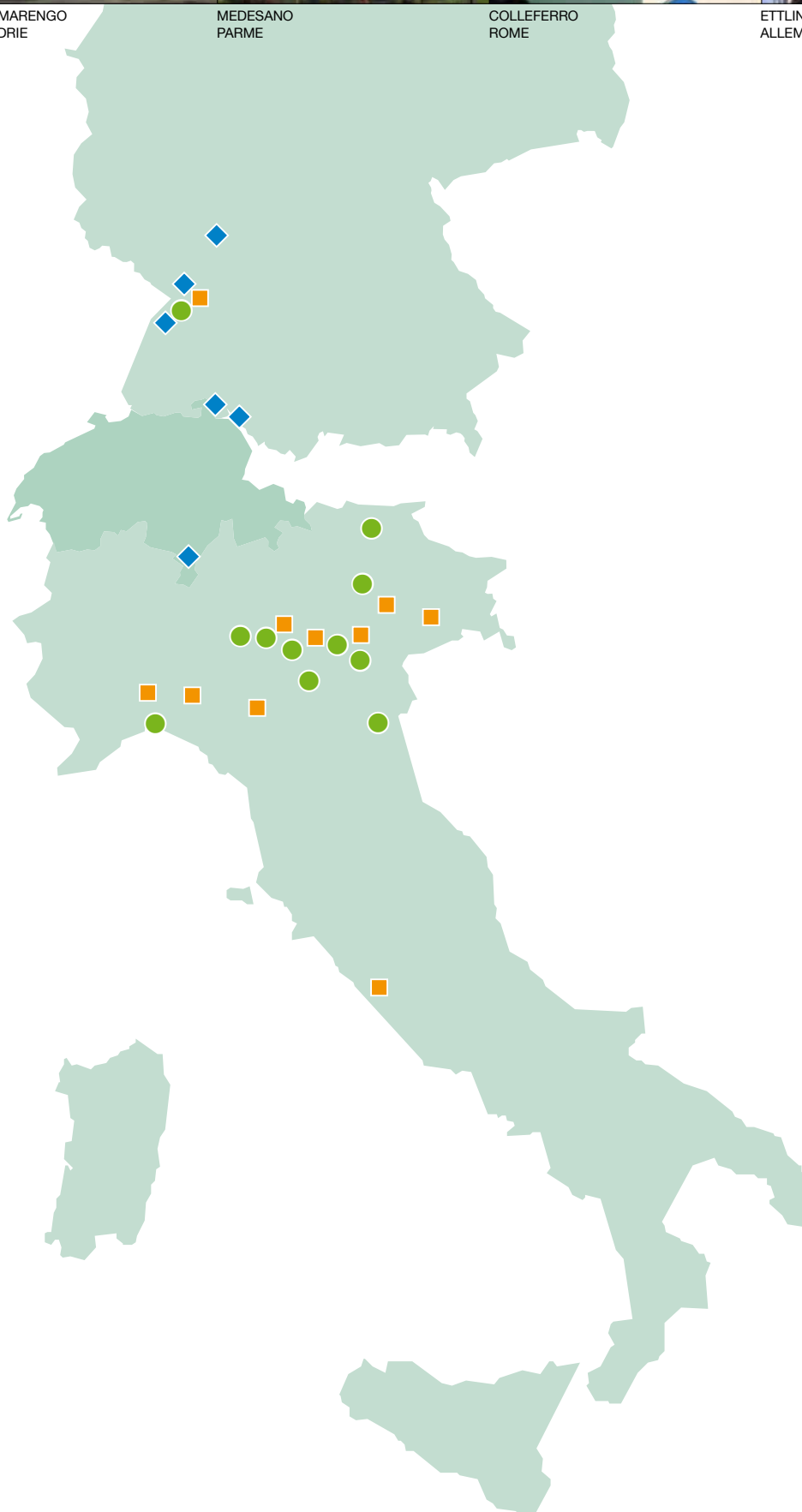
MEDESANO
PARME



COLLEFERRO
ROME



ETTLINGEN/KARLSRUHE
ALLEMAGNE



Grigolin Evoluzioni Costruttive

http://www.fornacigrigolin.it/ita/Prodotti/Dettaglio.php?id=178

Calendario p. 15 al 4099 - Cestoniale Pa. & Co. S.r.l. - SCAN - Agenda Pall. Co. - Login - Strumenti per le lingue - Grigolin Evoluzioni Costruttive

HOME AZIENDA PRODOTTI REFERENZE MONDOGRIGO NEWS DOWNLOAD DOVE SIAMO CONTATTI

Cerca

Prodotti / Dettaglio

Sai in Home - Prodotti - arteMURI (case) - 5th CALCE 0,7 - 1,8mm

SCEGLI IL PRODOTTO PER LE TUE ESIGENZE

INFORMAZIONI: 800 350907
GRIGOPRINTO: 800 474465
ATTENZIONE: 800 500555

INVI E-MAIL

SPONSOR

5th CALCE 0,7 - 1,8mm
Intonachino minerale a base di grassello di calce

DESCRIZIONE: Intonachino minerale a base di grassello di calce. Possiede ottima traspirabilità e resistenza alla formazione di muffe e batteri. La composizione inorganica e la capacità di riempimento rendono il prodotto indicato per il restauro di centri storici.

CAMPI D'IMPIEGO: Il prodotto è dunque indicato per applicazioni su intonaco cementizio e a base calce. 5th CALCE 0,7-1-1,2-1,5-1,8 mm è smagabile con il sistema intonacato arteMURI.

DOWNLOAD: 5thCALCE_012007_ita.pdf

Torna alla lista Famiglia Prodotti

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31010 - Ponte della Priula (TV) Italy
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MondoGrigo

Sai in Home - MondoGrigo

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ATTENZIONE: 800 500555

INVI E-MAIL

SPONSOR

FORMAZIONE
Investire nella formazione per rispondere alla crescente richiesta di indicazioni...

GRIGOPRINTO
Grigo Pronto è il servizio nato per ricevere le molteplici esigenze del cantiere...

GRIGOTIR
Il Grigotir è una strumento promozionale molto apprezzato dai clienti Grigolin...

LAVORA CON NOI

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Galileo
Galileo, malte per il restauro delle opere in calcestruzzo armato.

GRIGONOVA
Grigonova, il sistema nasamento per le murature umide.

Pocket
La soluzione a tutti i problemi di trasporto e immagazzinazione del calcestruzzo armato.

Leaflet MALTE DEL PIAVE
Malte del Piave, la posa dei prodotti.

GRIGIOACUSTICA
Grigioacustica, l'assorbimento acustico a pavimento.

Video Grigolin
Video Grigolin.

arteMURI
Artemuri, finiture apposte per l'edilizia.

Rivista arteMURI
Artemuri, alla scoperta dei colori italiani.

Brochure PALLADIO
Palladio, i sistemi per la bio-edilizia ed il restauro delle murature antiche.

Leaflet Soluzioni massetti
Soluzioni per massetti.

Leaflet AR97
Massetto autolivellante AR 97, ora anche in secco.

Manuale di posa GRIGOTHERM
Isolamento a Cassopila grigotherm, istruzioni di posa.

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Referenze

Sai in Home - Referenze - Palazzo di Chiavari

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INFORMAZIONI: 800 350907
GRIGOPRINTO: 800 474465
ATTENZIONE: 800 500555

INVI E-MAIL

SPONSOR

Palazzo di Chiavari Chiavari (GE)

Chiavari (GE)

PRODOTTI USATI: PALLADIO BI 21 PALLADIO BM 55 finiture resature GR 100-200-300

IMPRESA: Impresa Valeriani

Torna alla lista Referenze

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www.fornacigrigolin.it

The website is an important vehicle of communication between the company, its sales force and its customers; inside you can see the wide range of products and related technical sheets and downloadable updates, the new products, all the corporate news and events where the company is part of. Also very interesting is the service offered on site under the link «Choose the product for your needs»: according to the work which needs to be done you will be recommended the most suitable product. The site is the quickest instrument to find answers to your questions and to have a complete vision of the company.







Certificates and quality

Fornaci Calce Grigolin revolves the organization of the company around customer satisfaction, continuous improvement and spread of the culture of quality at all levels.

Indeed, the high quality, the great versatility of use and extreme product appearance and performance, are the principles that guide the company in its constant innovation and working toward the improvement of the design world.

Making the most of the technical development, Fornaci Calce Grigolin provides high performance, but also assurance of product quality, rigorously tested and certified at the time of production and packaging.

With the experience accumulated over the years, Fornaci Calce Grigolin realized that the certification is not simply the exposure of a brand, but it is the assumption of a behavioral pattern and a way to manage the company in such a way that ensures quality in time and in each activity.





Consultation guide of technical sheets and application cycles

This General Catalog presents the full range of products through very detailed technical sheets. The technical sheet describes the product and its characteristics, field of use, technical data to be met, surfaces on which it may be applied, tips for proper use, procedures for storage and conservation and, finally, disclaimers to avoid unpleasant incidents. The technical sheets are not only for end users but also for all dealers and agents who cooperate with the company as a tool to explain the construction techniques used.

arteMURI
rasanti specifici arteMURI

MARMORINO
GR 100-200-300
Rivestimento murale minerale
pregiato extra-bianco



Preparazione supporti e modalità di applicazione
Il supporto, libero da polvere, oli, grassi, parti friabili e incoerenti, deve essere preventivamente trattato con il nostro primer PK60 (90 g/litro) (GR - 100) applicato a più mani in modo da ottenere un sottobanco con assorbimento uniforme. GR 100-200-300 può essere preparato sia in bettoniera che a mano, aggiungendo acqua circa 30 litri per ogni 100 kg di prodotto secco fino ad ottenere un impasto omogeneo ed adatto da stendere. Evitare l'applicazione di GR 100-200-300 su una facciata in tempi duri.

Campi di impiego
GR 100-200-300 viene utilizzato come primario di finitura per ambienti sia interni che esterni. Per applicazioni in esterni si consiglia l'uso di GR 300.

Dati tecnici secondo norma UNI EN 998-1

| | |
|--|--|
| Peso specifico in massa (densità) | 1000 kg/m ³ (r = 100) |
| Spessore massimo | 1 mm (GR 100) 1,5 mm (GR 200) 2,5 mm (GR 300) |
| Consumo teorico | 1,8 kg/m ² (GR 100) 2,5 kg/m ² (GR 200) 3,5 kg/m ² (GR 300) |
| Acqua d'impasto | 28% in peso ca. |
| Resistenza a compressione (val. ES 10) | 2,5 N/mm ² |
| Resistenza a trazione | 1,2 N/mm ² |
| Permeabilità al vapore acqueo μ | 6 |
| Assorbimento d'acqua | R2 |
| Assorbimento su laterizio | 0,8 N/mm ² |
| Tipo di frattura (FR) | A |
| Modulo di elasticità | 10000 MPa |

Avvertenze
Non mescolare GR 100-200-300 con altre sostanze. Evitare forti sbalzi termici durante la fase di presa: il prodotto va protetto dal gelo e dalla rapida essiccazione. In presenza di non utilità per GR 100-200-300 con temperature inferiori a +5°C e superiori a +35°C.

Descrizione del prodotto
Rivestimento murale extra-bianco, pronto per l'uso, preparato con materie prime accuratamente classificate, colore bianco, texture granulosa, aspetto sfregiato ed abbinato specificamente per fornire l'applicazione ed evitare in tal modo le caratteristiche negative naturali del prodotto.

Formatura e stoccaggio
GR 100-200-300 viene fornito in sacchi da 25 kg con etichetta. Stoccare in luogo fresco, asciutto e non ventilato. Mantenere integra l'imballatura.



application cycles sub-layers, flooring and floor-laying system

STAGE ONE



OR



OR



CC 33
Cement-based, light
screed
(page 48)

PB 25
Cement-based, light
screed
(page 49)

PB 30
Cement-based, light
screed
(page 50)

SECOND STAGE



GRIGO ACUSTICA
Soundproof panels
(page 51-53)



OR



OR



AR 97
Self-levelling screed
(page 42)

AR 97
Self-levelling screed
(page 42)

AR 97
Self-levelling screed
(page 42)

THIRD STAGE



OR

OR



OR



SF 300
Hydraulic sand-binding screed,
traditional type
(page 44)

LR 30
Hydraulic binder for the prepara-
tion of normal-curing, fast-drying
screeds
(page 45)

SR 31
Normal-curing, fast-drying
traditional screed
(page 46)

FOURTH STAGE



GRIGOKOLL
Flexible cementous adhesive with high adhesive
power for ceramic tiles
(page 69)

application cycles plaster system + color for exteriors

PLASTERING



FGK 12
Waterproof background
plaster for interior and
exterior surfaces
(page 90)

OR



FG 99
Background plaster for
porous walls
(page 93)

+



ZG 21
Waterproof background
plaster for zoccolature
(page 101)

FINISHES AND SHAVINGS



PK 080
Highly protective
waterproof finishing
plaster
(page 30)

OR



PK 125
Highly protective water-
proof finishing plaster
(page 31)

COLORED FINISHES



PRIMER 2W
Water-based trans-
parent siloxane
base
(page 147)



XIL2 FILL
Anti-algae, acryl-siloxane
filling finish for exteriors
(page 151)



**F2
COPRENTE**
Pigmented acryl-
siloxane base
(page 148)



**XIL2 INTO
or DUE SI**
Anti-algae, acryl-
siloxane intonachino
for exteriors
(page 154-157)

application cycles concrete reinstatement

FIRST STAGE



PASSIVANTE

Bi-component, anti-corrosion coating with corrosion inhibitor for the protection of concrete reinforcement rods
(page 235)

SECOND STAGE



TIXO XC
Thixotropic mortar
with offset with-
drawal
(page 226)

OR



GROUT XC
Plaster mortar with
offset withdrawal
(page 227)

OR



ISI 1050
Cement mortar,
thixotropic, polymer
modified
(page 236)

OR



ISI 310
Cement mortar,
polymer modified,
for shaving and small
repairs
(page 237)

THIRD STAGE



ISI 310
Cement mortar, polymer
modified, for shaving and
small repairs
(page 237)

OR



RASATURA
Cement mortar, polymer
modified, for shaving and
small repairs
(page 238)

OR



UNIX
Cement mortar, poly-
mer-modified, for skim
plastering and/or localized
rehabilitation interventions
(page 244)

FOURTH STAGE



BETON ONE
Protective anti-algae pain-
ting for concrete
(page 143)

+



PRG SL T
Consolidating insulator,
transparent, solvent-
based, odour-free, for
exteriors
(page 192)

CONSTRUCTION



OR



OR



BM 30
Bio-mortar for masonry
with exposed concrete,
M2.5 class
(page 249)

BM 55
Bio-mortar for masonry,
M5 class
(page 250)

BMK 30
Water-proof, bio-mortar
for masonry with exposed
concrete, M2.5 class
(page 251)

PLASTERING



OR



OR



BI 19
Traditional bio base
render, based on
slaked lime aérienne
(page 254)

BI 21
Traditional bio base render,
based on natural hydraulic
lime
(page 255)

BIK 21
Water-proof traditional bio
base render, based on natural
hydraulic lime
(page 257)

FINISHES AND SKIM PLASTERS



OR



OR



OR



MARMORINO
GR 100/200/300
Precious mineral wall decora-
tion, extra-white
(page 212)

BI 07
Dry bio finish, based on
natural hydraulic lime
(page 258)

BIK 07
Water-proof dry bio finish,
based on natural hydraulic lime
(page 259)

AB 09 Rasocal
Multi-purpose bio-skim
plaster, powder, based on
natural hydraulic lime
(page 261)

F4 SIL
Potassium silicate trans-
parent insulator
(page 167)

SIL4 IN
Potassium-silicate mineral paint
for interiors
(page 170)

CINQUETERRE
Peinture minérale décorative à base
de chaux éteinte pour intérieur
(page 177)



OR



OR



OR



COLORED FINISHES

SIL4 OUT
Potassium-silicate smooth mine-
ral finish for exteriors
(page 171)

5th CALCE 0,7 - 1,8 mm
Mineral intonachino plaster finish based
on slaked lime
(page 180)

application cycles restoration of moist masonry

PLASTERING

GRIGONOVA RINZAFFO

Curing roughcast based on sulphate-resistant binders (page 56)

GRIGONOVA POROSO

Fiber-reinforced plaster with antisaline effect, based on sulphate-resistant binders (page 57)

GRIGONOVA RISANA

Fiber-reinforced, breathable, water-repellent plaster, based on sulphate-resistant binders (page 58)

ISI RINZAFFO

Curing roughcast based on sulphate-resistant binders (page 61)

ISI INTONACO

One coat dehumidifying fiber-reinforced plaster, based on sulphate-resistant binders (page 62)

STABILSALE

High-penetration, pigmented anti-saline solution, based on siloxanic oligomers (page 60)

FINISHES AND SKIM PLASTERS



OR



OR



GRIGONOVA TONACHINO

Breathable fiber-reinforced smooth plaster finish, light color, high water repellence (page 59)

AC 10 Rasotherm

Multi-purpose skim plaster, powder (page 72)

AB 09 Rasocal

Multi-purpose bio-skim plaster, powder, based on natural hydraulic lime (page 261)

F4 SIL

Potassium silicate transparent insulator (page 167)

PRIMER 2W

Water-based transparent siloxane base (page 147)

F2 COPRENTE

Pigmented acryl-siloxane base (page 148)

COPRISIL 4

Potassium silicate colored base (page 168)

COLORED FINISHES



SIL4 OUT

Potassium-silicate smooth mineral finish for exteriors (page 171)

XILAN DUEL

Anti-algae, smooth siloxane finish, for exteriors (page 149)

XIL2 INTO

Anti-algae, acryl-siloxane intonachino for exteriors (page 154)

SIL4 INTO

0,7 - 2,5 mm Silicate mineral intonachino for exteriors (page 173)

application cycles restoration of moist masonry

PLASTERING



PALLADIO RINZAFTO

Sulphate-resistant repair rough cast based on slaked lime and pozzolanic binders (page 262)

+



PALLADIO POROSO

Sulphate-resistant, macro-porous plaster, based on slaked lime and pozzolanic agents (page 263)

+



PALLADIO RISANA

Sulphate-resistant, waterproof, breathable plaster, based on slaked lime and pozzolanic binders (page 264)

SKIM PLASTERS



AB 09 Rasocal

Multi-purpose bio-skim plaster, powder, based on natural hydraulic lime (page 261)



PALLADIO TONACHINO

Sulphate-resistant, breathable fine finish, based on slaked lime and pozzolanic binders (page 265)

F4 SIL

Potassium silicate transparent insulator (page 167)



SIL 4 OUT

Potassium-silicate smooth mineral finish for exteriors (page 171)



PRIMER 2W

Water-based transparent siloxane base (page 147)



COLORED FINISHES

XIL2 FILL

Anti-algae, acryl-siloxane filling finish for exteriors (page 151)



MARMORINO

GR 100/200/300 Precious mineral wall decoration, extra-white (page 212)



F2 COPRENTE

Pigmented acryl-siloxane base (page 148)



COPRISIL 4

Potassium silicate colored base (page 168)



SIL4 INTO 0,7 - 2,5 mm

Silicate mineral intonachino for exteriors (page 173)



XIL2 INTO

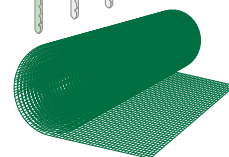
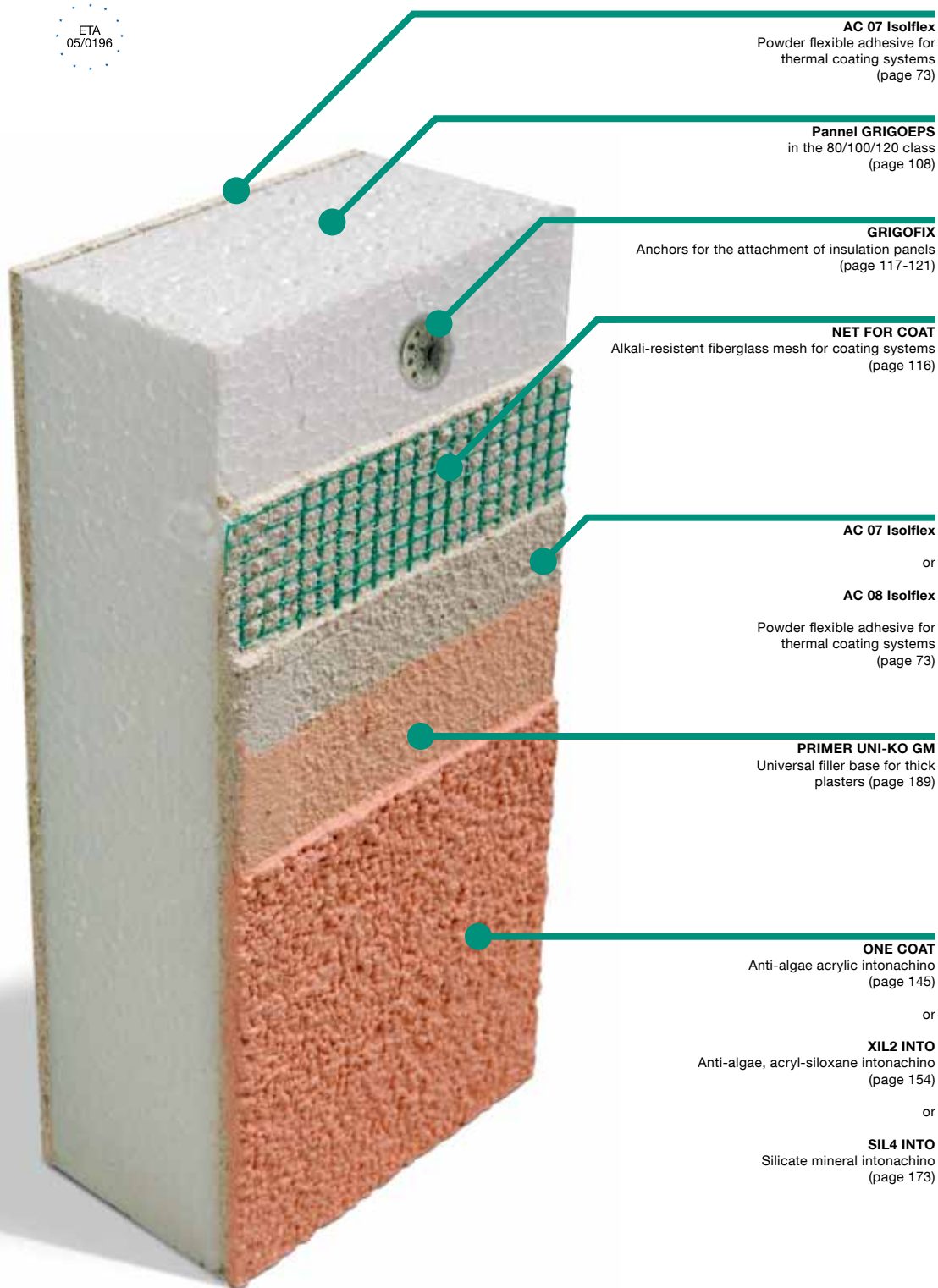
Anti-algae, acryl-siloxane intonachino for exteriors (page 154)



application cycles coating system with GRIGOEPS panels, ETA 05/0196 certified

ETA

ETA
05/0196



The scheme lists all ETA certified products; see the entries of the technical specifications to ensure compatibility with other Grigolin products.

application cycles coating system with GRIGOGRAF panels, ETA 05/0196 certified



ETA
05/0196



AC 07 Isolflex
Powder flexible adhesive for thermal coating systems (page 73)

Pannel GRIGOGRAF
in the 70/100 class
(page 111)

GRIGOFIX
Anchors for the attachment of insulation panels
(page 117-121)

NET FOR COAT
Alkali-resistant fiberglass mesh
for coating systems
(page 116)

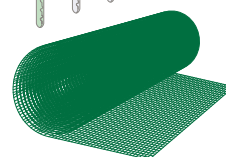
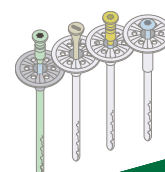
AC 07 Isolflex
or
AC 08 Isolflex
Powder flexible adhesive for thermal coating systems
(page 73)

PRIMER UNI-KO GM
Universal filler base for thick plasters
(page 189)

ONE COAT
Anti-algae acrylic intonachino
(page 145)

or
XIL2 INTO
Anti-algae, acryl-siloxane intonachino
(page 154)

or
SIL4 INTO
Silicate mineral intonachino
(page 173)



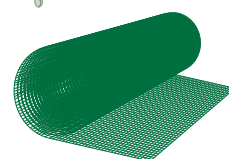
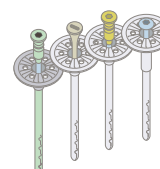
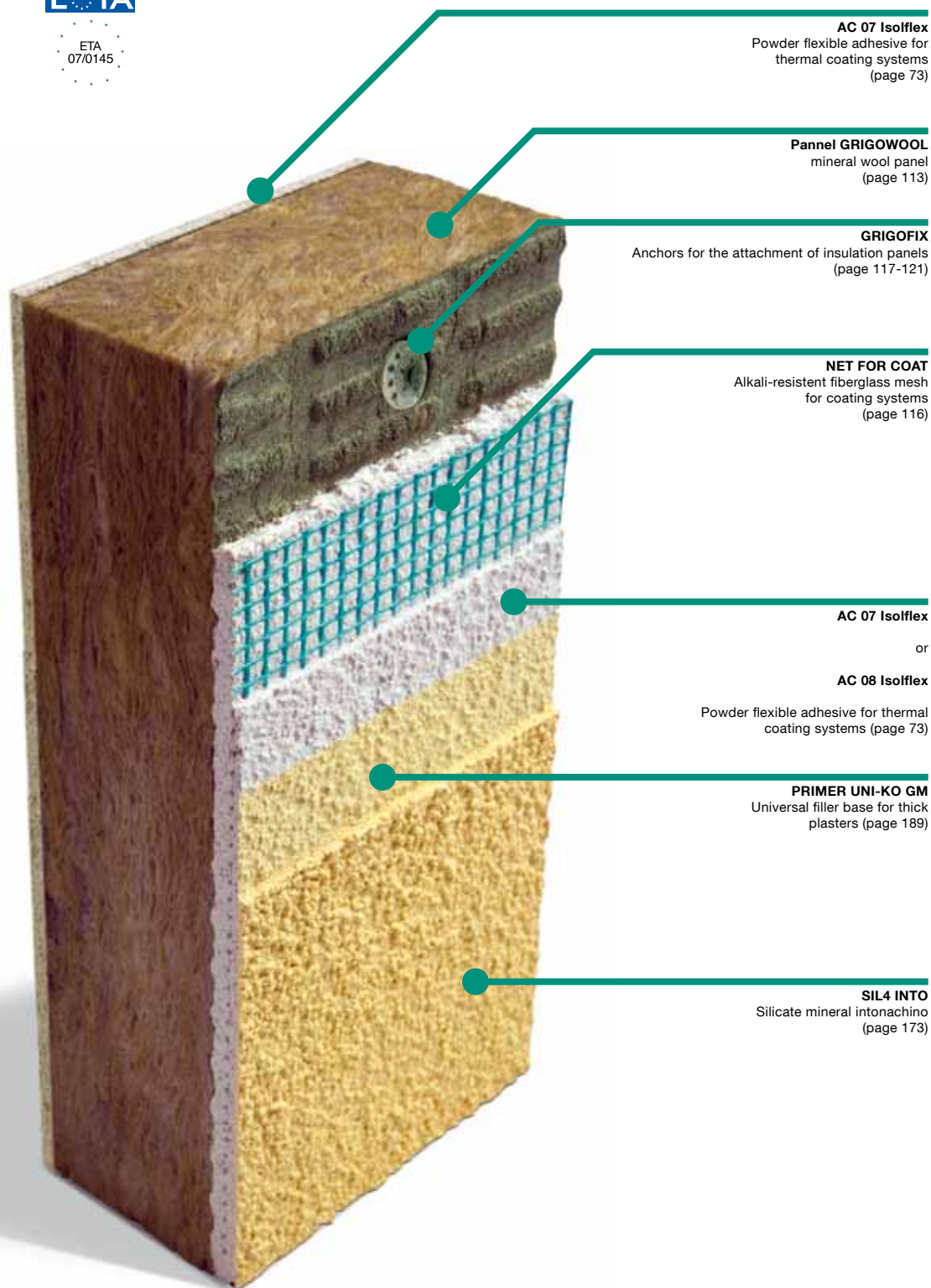
The scheme lists all ETA certified products; see the entries of the technical specifications to ensure compatibility with other Grigolin products.

application cycles

coating system with GRIGOWOOL panels, ETA 07/0145 certified

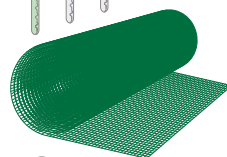
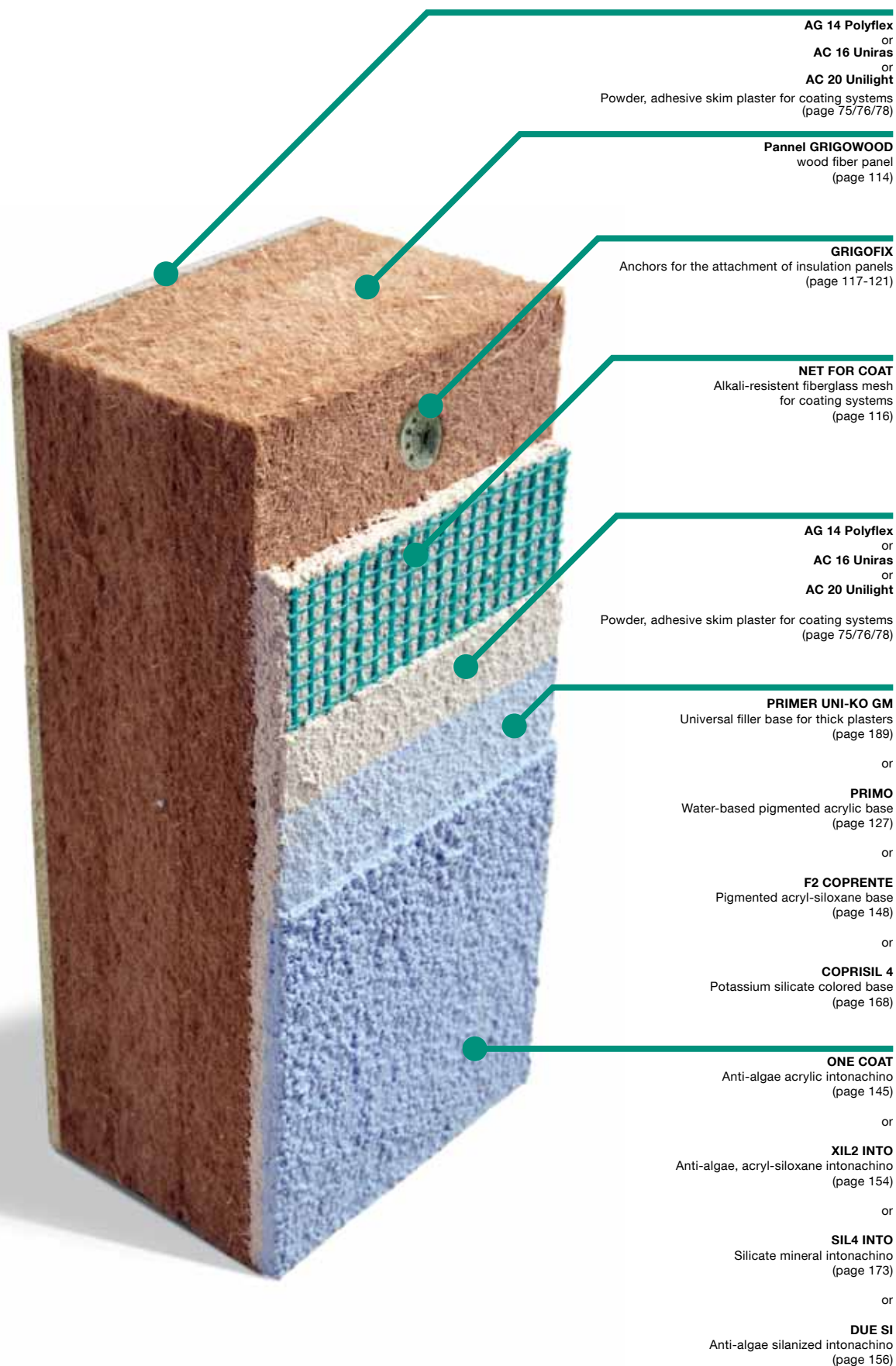


ETA
07/0145

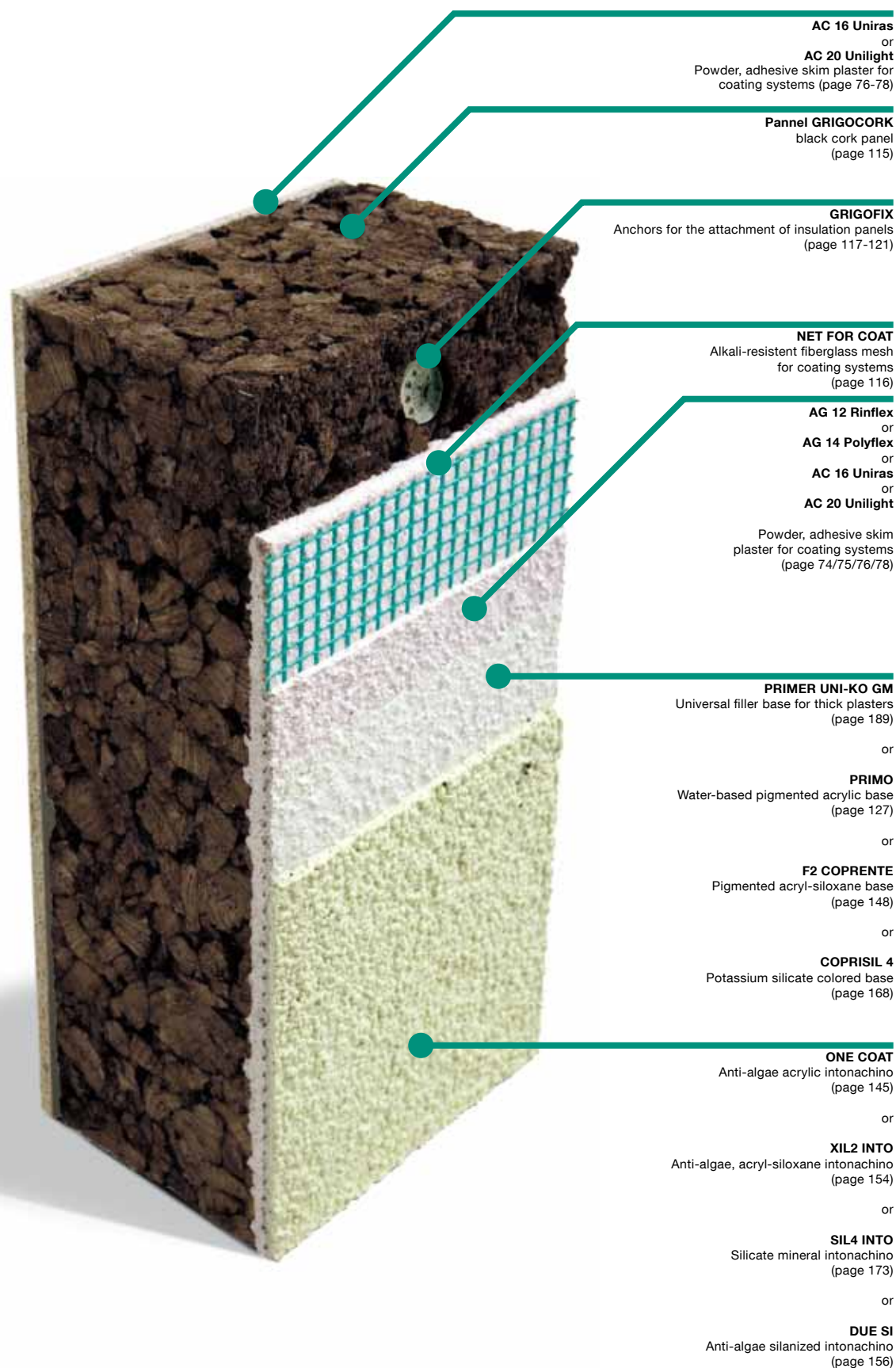


The scheme lists all ETA certified products; see the entries of the technical specifications to ensure compatibility with other Grigolin products.

application cycles kit for coating with GRIGOWOOD panels



application cycles kit for coating with GRIGOCORK panels



product description



finishings and skim plasters

The products of this category are designed to finish and level surfaces, plastered or not, or which have certain characteristics, such as concrete, gypsum, smooth surfaces or slightly absorbing. The degree of finish and chromatic appearance of the obtained surfaces provide for a subsequent finish with paint or colored coatings, such as the products of the arteMURI line.



finishings and skim plasters

FG 05

Dry fine mortar, lime-based, for
interiors



Product description

Dry premix, based on selected inerts, hydrated lime, special additives.

Supply and Storage

FG05 is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surfaces must be linear, uniform and humid. Remove any dust before application by «scratching» or scraping. For the application, proceed as follows: Verify that the surface is wet, moisten if necessary; prepare the dough by adding about 43 lt of water x 100 kg of dry product, stir well, avoiding in any case an excessive incorporation of air. The dough thus prepared should be left to stand for 15 minutes. Apply with metal spatula into two or more coats, crossing the direction of application. The material thus applied can be finished with plastic to obtain the so-called «crushed finishing», or it may also be done with the sponge float, dampened if necessary, to obtain an area without seams and overlappings. If application is done on dry plaster, mix with PRG10 diluted 1:10 or apply the same on the plaster background.

Fields of Use

FG05 may be used as an interior finish on rough plaster (such as our own IG14, IG28, FG12, etc.) using the «fresh on fresh» technique. FG05 should not be applied to gypsum, painted or crumbly and insubstantial surfaces. Do not apply on concrete and on surfaces with irregularities in excess of 3-4 mm. Avoid use on completely dried plaster.

Specifications

The interior surfaces that need finishing must be perfectly flat and homogeneous. The surfaces thus prepared can be finished with a civil finish with the fine, dry mortar for interiors FG05 from Fornaci Calce Grigolin, dry premix based on selected inert, aerial binder and specific additives for improving workability and grip. The application will be performed by hand with metal spatula applying the material in two coats, crossing the way of application, up to a thickness of no more than 3 mm, at a rate of 2-3 kg/m². Finish off with a sponge float.

Technical data according to UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1.000 kg/m ³ determined in free fall |
| Maximum diameter | < 0,8 mm |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Water in the mix | Approx. 43% |
| Consumption | 2-3 kg/m ² for 3 mm. thickness |
| Maximum application thickness | 3 mm |
| Mechanical resistance to flexion at 28 days | 0,8 N/mm ² |
| Mechanical resistance to compression at 28 days | 1,1 N/mm ² |
| Water vapor permeability μ | 5 |
| Grip to brick | 0,4 N/mm ² |
| Fracture type (FP) | A |
| Water absorption | W 0 |
| Fire resistance | A1 class |
| Thermal conductivity | 0,36 W/mK (tabulated value) |

Disclaimers

Do not mix FG05 with other substances. Avoid extreme heat changes while hardening. The product must be protected from frost and rapid drying (wind or sunlight). We do not recommend using FG05 when temperatures are below +5°C or above +30°C. FG05 should not be covered with coatings or little breathable paints which may possibly prevent carbonatation and the evaporation of residual moisture of the substrate, thus giving birth to cracks or peeling of the finish itself.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



finishings and skim plasters

FG 06

Waterproof dry fine mortar for
exteriors



Product description

Dry premix based on selected inerts, hydrated lime, hydraulic binder, special additives and water-repellent agent.

Supply and Storage

FG06 is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stamped on the bag.

Surface Preparation and Application

The surfaces must be level, uniform and humid. Before application, remove any dust caused by "brushing" or scraping. For the application, proceed as follows: Verify that the surface is wet or moisten if necessary; prepare the dough by adding about 35 lt. of water x 100 kg. of dry product; stir well, avoiding excessive air incorporation. The dough thus prepared should be left to stand for 15 minutes. Apply with metal spatula into two or more layers, crossing the direction of application. The material thus applied can be finished with the plastic float to obtain the so-called "crushed finishing"; it may also be done with the sponge float, dampened if necessary, to obtain an area without seams and overlapings. If the application is done on dry plasters, mix with PRG10 diluted 1:10 or apply the same product on the back-ground plaster.

Fields of use

FG06 may be used as an external finish on new rough plaster (such as our IG14, IG28, FG12, etc.) with the "fresh on

fresh" technique. FG06 should not be applied to gypsum, painted or crumbly and insubstantial surfaces. Do not apply on concrete and on surfaces with irregularities in excess of 3-4 mm. Avoid use on completely dry plasters.

Specifications

The external plasters to be finished must have perfectly flat and homogeneous surfaces. The surfaces thus prepared can be finished with the waterproof dry fine mortar FG06 from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders, special additives to improve workability and grip and waterproof agent for improving water repellence. The application will be performed by hand with a metallic spatula, applying the material in two layers, crossing the way of application, up to a thickness of no more than 3 mm, at a rate of 3-4 kg/m². Finishing will be done with the sponge float. The use of a waterproof agent in the production of this plaster gives the finished product a high resistance to weather agents (acid rain, air pollution, etc.).

Technical data according to UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1.100 kg/m ³ determined in free fall |
| Maximum diameter | < 0,8 mm |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Water in the mix | Approx. 35% |
| Consumption | 3-4 kg/m ² for 3 mm. thickness |
| Maximum application thickness | 3 mm |
| Mechanical resistance to flexion at 28 days | 0,8 N/mm ² |
| Mechanical resistance to compression at 28 days | 1,4 N/mm ² |
| Water vapor permeability μ | 6 |
| Grip to brick | 0,4 N/mm ² |
| Fracture type (FP) | A |
| Water absorption | W0 |
| Fire resistance | A1 class |
| Thermal conductivity | 0,37 W/mK (tabulated value) |

Disclaimers

Do not mix FG06 with other substances. Avoid extreme heat changes while hardening. The product must be protected from frost and rapid drying (wind or sunlight). We do not recommend using FG06 when temperatures are below +5°C or above +30°C. FG06 should not be covered with coatings or little breathable paints which may possibly prevent carbonatation and the evaporation of residual moisture of the substrate, thus giving birth to cracks or peeling of the finish itself.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



finishings and skim plasters

PK 080

Highly protective waterproof finishing plaster



Product description

Dry premix based on carefully selected aggregates, hydrated lime, hydraulic binder, special additives for improving workability and grip and waterproofing agent.

Supply and Storage

PK 080 is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surfaces must be level, uniform and humid. Before application, remove any dust caused by "brushing" or scraping. For the application, proceed as follows: Verify that the surface is wet or moisten if necessary; prepare the dough by mixing around 28-30 lt. of water x 100 kg. of dry product; stir well to avoid excessive air incorporation. The dough thus prepared should be left to stand for 15 minutes. Apply with metallic spatula into two or more layers crossing direction of application; the last coat should only be applied after the underlying layer is white and hardened (2-3 hours in correlation to atmospheric conditions and absorption of the base). The material thus applied may be finished with plastic float to obtain the so-called "crushed finishing", or it may also be done with the sponge float, dampened if necessary, to obtain an area without seams and overlappings. If the application is made on absorbent plaster, apply on the plaster a coated of PRG 10 diluted 1:10.

Fields of Use

PK 080 may be used as an external finish on rough plaster (such as our IG14, IG28, FG12, etc.). PK 080 should not be applied on gypsum, painted or crumbly and insubstantial surfaces. Do not apply on concrete and on surfaces that

present irregularities in excess of 3-4 mm. For use on excessively absorbent plasters, before use, apply a coat of PRG 10 diluted 1:10.

Specifications

The external plasters to be finished must have surfaces which are perfectly flat and homogeneous and reasonably well seasoned (at least 1 week). The surfaces thus prepared may be finished with the highly protective waterproof plaster finish PK 080 of Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders, special additives to improve workability and grip and waterproofing agent for improving water repellence. The application will be performed by hand with a metallic spatula, applying the material in two layers, crossing the direction of application, up to a thickness not exceeding 4 mm, at a rate of 4 kg/m². The finishing will be done with a sponge or plastic float, depending on the desired "design". The use of special additives in combination with the waterproofing agent in the production of the plaster gives the finished product a high resistance to weather agents (acid rain, air pollution, etc.).

Technical data according to UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1.100 kg/m ³ determined in free fall |
| Maximum diameter | < 0,8 mm |
| Color | grey/white |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Water in the mix | Approx. 30% |
| Consumption | 4 kg/m ² for 4 mm. thickness |
| Maximum application thickness | 4 mm |
| Mechanical resistance to flexion at 28 days | 1,2 N/mm ² |
| Mechanical resistance to compression at 28 days | 1,4 N/mm ² |
| Water vapor permeability μ | 7 |
| Grip to brick | 0,7 N/mm ² |
| Fracture type (FP) | A |
| Water absorption | W1 |
| Fire resistance | A1 class |
| Thermal conductivity | 0,40 W/mK (tabulated value) |

Disclaimers

Do not mix PK 080 with other substances. Avoid extreme heat changes while hardening. The product must be protected from frost and rapid drying (wind or sunlight). We do not recommend using PK 080 when temperatures are below +5°C or above +30°C. PK 080 should not be covered with coatings or little breathable paints which may possibly prevent carbonatation and the evaporation of residual moisture of the substrate, thus giving birth to cracks or peeling of the finish itself.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



finishings and skim plasters

PK 125

Highly protective waterproof finishing plaster



Product description

Dry premix based on carefully selected aggregates, hydrated lime, hydraulic binder, special additives for improving workability and grip and waterproofing agent.

Supply and Storage

PK125 is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surfaces must be level, uniform and humid. Before application, remove any dust caused by "brushing" or scraping. For the application, proceed as follows: Verify that the surface is wet or moisten if necessary; prepare the dough by mixing around 28-30 lt. of water x 100 kg. of dry product; stir well to avoid excessive air incorporation. The dough thus prepared should be left to stand for 15 minutes. Apply with metallic spatula into two or more layers crossing direction of application; the last coat should only be applied after the underlying layer is white and hardened (2-3 hours in correlation to atmospheric conditions and absorption of the base). The material thus applied may be finished with plastic float to obtain the so-called "crushed finishing", or it may also be done with the sponge float, dampened if necessary, to obtain an area without seams and overlappings. If the application is made on absorbent plaster, apply on the plaster a coated of PRG 10 diluted 1:10.

Fields of Use

PK125 may be used as an external finish on rough plaster (such as our IG14, IG28, FG12, etc.). PK125 should not be applied on gypsum, painted or crumbly and insubstantial surfaces. Do not

apply on concrete and on surfaces that present irregularities in excess of 3-4 mm. For use on excessively absorbent plasters, before use, apply a coat of PRG 10 diluted 1:10.

Specifications

The external plasters to be finished must have surfaces which are perfectly flat and homogeneous and reasonably well seasoned (at least 1 week). The surfaces thus prepared may be finished with the highly protective waterproof plaster finish PK 080 of Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders, special additives to improve workability and grip and waterproofing agent for improving water repellence. The application will be performed by hand with a metallic spatula, applying the material in two layers, crossing the direction of application, up to a thickness not exceeding 4 mm, at a rate of 4 kg/m². The finishing will be done with a sponge or plastic float, depending on the desired "design". The use of special additives in combination with the waterproofing agent in the production of the plaster gives the finished product a high resistance to weather agents (acid rain, air pollution, etc.)

Technical data according to UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1.250 kg/m ³ determined in free fall |
| Maximum diameter | < 1,25 mm |
| Color | grey/white |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Water in the mix | Approx. 30% |
| Consumption | 4 kg/m ² for 4 mm. thickness |
| Maximum application thickness | 4 mm |
| Mechanical resistance to flexion at 28 days | 1,2 N/mm ² |
| Mechanical resistance to compression at 28 days | 1,4 N/mm ² |
| Water vapor permeability μ | 7 |
| Grip to brick | 0,7 N/mm ² |
| Fracture type (FP) | A |
| Water absorption | W1 |
| Fire resistance | A1 class |
| Thermal conductivity | 0,40 W/mK (tabulated value) |

Disclaimers

Do not mix PK 125 with other substances. Avoid extreme heat changes while hardening. The product must be protected from frost and rapid drying (wind or sunlight). We do not recommend using PK 125 when temperatures are below +5°C or above +30°C. PK 125 should not be covered with coatings or little breathable paints which may possibly prevent carbonatation and the evaporation of residual moisture of the substrate, thus giving birth to cracks or peeling of the finish itself.

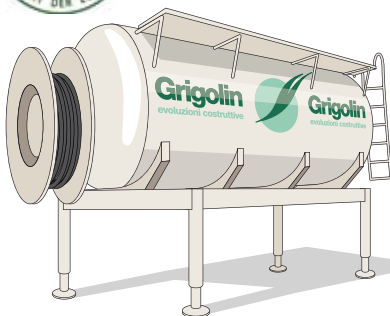
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finishings and skim plasters

STABILMIX

High quality, good workability fine
mortar



Product description

Wet premix based on natural river sand, washed and sorted, and lime grassello obtained by extinguishing lime in water and adequate maturation.

Supply and Storage

Stabilmix is supplied in polyethylene bags in iron containers, wood boxes and big-bags. It may also be supplied in bulk in special silos provided with a transportation system. Keep packaging intact. Keep from freezing.



Surface preparation and Application

The surfaces must be level, uniform and humid. Before application, remove any dust caused by "brushing" or scraping. For the application, proceed as follows: Verify that the surface is wet or moisten if necessary. Apply with metallic spatula into two or more layers crossing direction of application. The material thus applied may be finished with plastic float to obtain the so-called "crushed finishing", or it may also be done with the sponge float, dampened if necessary, to obtain an area without seams and overlappings. If the application is made on absorbent plaster, apply on the plaster a coated of PRG 10 diluted 1:10.

Fields of use

Stabilmix may be used as an interior finish on new rough plaster (such as our

IG14, IG28, FG12, etc.), using the "fresh on fresh" technique. Stabilmix should not be used on painted or inconsistent and brittle surfaces. The installation areas must be free from dust, efflorescence, oils and fats. Do not apply on concrete and not exceed the application thickness of 2 mm. Avoid use on completely dried plaster. For outdoor use, if appropriately protected, it may be made hydraulic by adding 2-3 kg of binder per sack.

Specifications

The plasters that need to be finished must have perfectly flat and homogeneous surfaces. The surfaces thus prepared may be finely finished with Stabilmix from Fornaci Calce Grigolin, a wet premix based on lime grassello and natural river sand, washed and sorted, at a ratio of 2-3 kg/m².

Technical data according to UNI EN 998-1 Standard

| | |
|--------------------------------|--|
| Maximum diameter | < 0,6 mm |
| Plastic withdrawal | Absent in standard thermohygro-metric conditions |
| Consumption | 2-3 kg/m ² |
| Maximum application thickness | 2 mm |
| Water vapor permeability μ | 5 |
| Water absorption | W0 |
| Fire resistance | A1 class |
| Thermal conductivity | 0,45 W/mK (tabulated value) |

Disclaimers

Do not mix Stabilmix with other substances. Avoid extreme heat changes while hardening. The product must be protected from frost and rapid drying (wind or sunlight). We do not recommend using Stabilmix when temperatures are below +5°C or above +30°C. Stabilmix should not be covered with coatings or little breathable paints which may possibly prevent carbonatation and the evaporation of residual moisture of the substrate, thus giving birth to cracks or peeling of the finish itself. It is always better to apply the wall decorations, the decorative stucco finish and any other finish which have a higher mechanical strength higher than that of the mortar itself, directly on the plaster background. It must be applied on a plaster that has not been poured for more than 48 hours, in order to avoid a rapid dehydration of the fine mortar itself.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

finishings and skim plasters

LG 01

Skim plaster for concrete, colour
grey



Product description

Dry premix based on selected inerts, hydraulic binder, special additives aimed at improving workability and grip.

Supply and Storage

LG01 is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface preparation and Application

The surfaces must be level, uniform and humid. Before applying, remove any dust, efflorescence and traces of disarming, by washing with pressure washer.

For the application, proceed as follows: Verify that the surface is wet or moisten if necessary; fill all joints or irregularities exceeding 10 mm at least 48 hours before application, with the same LG01. Mix 100 kg of product with 27 liters of water, stir well, avoiding excessive air incorporation. The dough prepared as such should be left to stand for 15 minutes. Apply with metallic spatula into two or more coats, crossing the direction of application. The material thus applied may be finished with a plastic float to obtain the so-called "crushed finishing" or, it may also be finished with the sponge float, dampened if necessary, to obtain an area without seams and overlappings. If the application is made on particularly absorbent concrete, apply PRG10 diluted 1:10 as insulation.

Fields of use

LG01 may be used as skim plaster on interior and exterior surfaces of smooth concrete, provided they are free of any dust, efflorescence, oils, fats and dis-

arming. It may also be used as filler for hair cracks and attics joints, predalles type. LG01 should never be applied to gypsum, painted or crumbly and insubstantial surfaces. Do not apply on concrete and on surfaces that present irregularities exceeding 10 mm. Avoid use on highly absorbent surfaces if not treated with primer type PRG 10.

Specifications

The surfaces which need to be finished must be clean, free of dust, efflorescence, oils, fats and disarming. Each incoherent or unstable part should be removed or consolidated. Fill the joints or any irregularities exceeding 10 mm with at least 24-48 hours before application, with LG01 skim plaster from Fornaci Calce Grigolin. Once the surface prepared, moistened if necessary, apply the same LG01, dry premix based on carefully selected inerts, hydraulic binder and special additives aimed at improving workability and grip, at a rate of 1.5-2 kg/m² for each mm. of thickness. The finishing must be carried out while the product is still plastic, by successively moistening the surface of the applied material and then smoothing it with a sponge float, until a fine finish is obtained.

Technical data according to UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1.550 kg/m ³ determined in free fall |
| Maximum diameter | < 0,6 mm |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Water in the mix | Approx. 27% |
| Consumption | 1.5-2 kg/m ² for 1 mm. thickness |
| Application thickness | Between 2 and 8 mm. |
| Mechanical resistance to flexion at 28 days | 4 N/mm ² |
| Mechanical resistance to compression at 28 days | 12 N/mm ² |
| Water vapor permeability μ | 12 |
| Grip to brick | 1,0 N/mm ² |
| Fracture type (FP) | A |
| Water absorption | W1 |
| Fire resistance | A1 class |
| Thermal conductivity | 0,72 W/mK (tabulated value) |

Disclaimers

Do not mix LG01 with other substances. Avoid extreme heat changes while hardening. The product must be protected from frost and rapid drying (wind or sunlight). We do not recommend using LG01 when temperatures are below +5°C or above +30°C. Do not apply on inconsistent surfaces and do not exceed thicknesses of 8 mm.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



finishings and skim plasters

LG 22

Skim plaster, white color



Product description

Dry premix, for manual application, based on selected inerts of the finest sort, hydraulic binder and special additives.

Supply and Storage

LG22 is supplied in special bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface preparation and Application

The surfaces must be level, uniform and humid. Before applying, remove any dust, efflorescence and traces of disarming, by washing with pressure washer.

For the application, proceed as follows: Verify that the surface is wet or moisten if necessary. Mix 100 kg of product with 48-50 liters of water, stir well, avoiding excessive air incorporation. The dough prepared as such should be left to stand for 15 minutes. Apply with metallic spatula into two or more coats, crossing the direction of application, to obtain a smooth area without seams and overlappings. If the application is made on particularly absorbent surfaces, apply PRG10 diluted 1:10 as insulation.

Fields of use

LG22 may be used as smoothener on interior and exterior surfaces plastered with premixed based on hydraulic lime-binder, provided they are free of any dust, efflorescence, oils, fats and

disarming. LG22 should never be applied to gypsum, painted or crumbly and insubstantial surfaces. Do not apply on concrete and on surfaces that present irregularities exceeding 5 mm. Avoid use on highly absorbent surfaces if not treated with primer type PRG 10.

Specifications

The surfaces which need to be finished must be clean, free of dust, efflorescence, oils, fats and disarming. Each incoherent or unstable part should be removed or consolidated. Once the surface prepared, moistened if necessary, apply the LG22 skim plaster, dry premix based on carefully selected inerts, white hydraulic binder and special additives aimed at improving workability and grip, at a rate of 1-1.3 kg/m² for each mm. of thickness. The finishing must be carried out while the product is still plastic, applying the same material in several passes by using a metallic spatula, until a completely smooth surface is obtained.

Technical data according to UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 850 kg/m ³ determined in free fall |
| Maximum diameter | < 0,1 mm |
| Plastic withdrawal | Absent in standard thermohygro-metric conditions |
| Water in the mix | Approx. 48-50% |
| Consumption | 1-1.3 kg/m ² for 1 mm. thickness |
| Application thickness | 3 mm |
| Mechanical resistance to flexion at 28 days | 1 N/mm ² |
| Mechanical resistance to compression at 28 days | 2,5 N/mm ² |
| Water vapor permeability μ | 10 |
| Grip to brick | 0,6 N/mm ² |
| Fracture type (FP) | A |
| Water absorption | W0 |
| Fire resistance | A1 class |
| Thermal conductivity | 0,60 W/mK (tabulated value) |

Disclaimers

Do not mix LG22 with other substances. Avoid extreme heat changes while hardening. The product must be protected from frost and rapid drying (wind or sunlight). In the case of outdoor applications, in the event of prolonged exposure to weather elements, the application of suitable water-repellent paint is required. We do not recommend using LG22 when temperatures are below +5°C or above +30°C. Do not apply on inconsistent surfaces and do not exceed thicknesses of 3 mm. Is not suitable to receive coatings with stone or ceramic materials or marbled stucco, and in any case, the paint will be applied after the complete cure of the LG 22 (28 days).

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



finishings and skim plasters

LG 44 Z

Skim plaster finish based on
gypsum-lime



Product description

Dry premix, based on gypsum, hydrated lime, limestone inerts and special additives.

Supply and Storage

LG44Z is supplied in bags of 20 pallets on pallets with stretch. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface preparation and Application

The interior plasters to be finished should be cleaned and every inconsistent or unstable part should be removed. The surface must be level, uniform, free from dust, oils and fats. For the application, proceed as follows:

mix 55 lt of water x 100 kg of product, stir well, avoiding the formation of clots that might impede the subsequent application and let the dough rest for approx. 10 minutes. The dough thus prepared may be used during the next hour. Apply with a metallic spatula in two or more passes crossing the sense of application until a smooth surface is obtained, with no seams and overlappings. If you want to enhance the mirror effect, finish the hardened product with the metallic spatula, moistened with water.

Fields of use

LG44Z can be used as a smoothing of surfaces plastered with gypsum (as our GS08). It can also be used as a finishing

for lime-cement plasters, well seasoned, provided they are free of dust, efflorescence, oils and fats. LG44Z should not be used on painted or inconsistent and brittle surfaces. Do not apply on concrete and rehabilitation plasters and in areas or environments where there is still a high rate of humidity. Avoid outdoor use.

Specifications

The interior plaster to be finished should be clean and every inconsistent or unstable part should be removed. On the surface thus prepared, apply the LG44Z skim plaster from Fornaci Calce Grigolin, dry premix based on carefully selected inerts, aerial binders and special additives to improve workability and grip, at a rate of 0.8-0.9 kg/m² per mm of thickness. The finish should be applied to hardened product, running over the product with the metal spatula, eventually humidified, until a completely smooth, mirror-like surface is obtained.

Technical data according to UNI EN 13279-1 Standard

| | |
|---|---|
| Classification | B5-50-2 |
| Specific weight | 750 kg/m ³ determined in free fall |
| Maximum diameter | < 0,1 mm |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Water in the mix | Approx. 50-55% |
| Consumption | 2-3 kg/m ² for 3 mm. thickness |
| Thickness | between 2 and 8 mm |
| Mechanical resistance to flexion at 28 days | 1,4 N/mm ² |
| Mechanical resistance to compression at 28 days | 4 N/mm ² |
| Water vapor permeability μ | 8 |
| Fire resistance | A1 class |
| Thermal conductivity | 0,36 W/mK (tabulated value) |

Disclaimers

Do not mix LG44Z with other substances. Avoid extreme heat changes while hardening. The product must be protected from frost and rapid drying (wind or sunlight). We do not recommend using LG44Z when temperatures are below +5°C or above +30°C. Do not apply on inconsistent or painted surfaces. Do not use outdoors or on dehumidifying plasters. LG44Z should not be covered with coatings or little breathable paints which may possibly prevent carbonatation and the evaporation of residual moisture of the substrate.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



finishings and skim plasters

LG 55

Skim plaster finish based on
gypsum-lime



Product description

Dry premix, based on gypsum, hydrated lime, limestone inerts and special additives.

Supply and Storage

LG55 is supplied in bags on pallets with stretch. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface preparation and Application

The plaster to be level, uniform, free of dust, oils and fats.

For the application, proceed as follows: mix 50-60 lt of water x 100 kg of product, stir well, avoiding the formation of clots that might impede the subsequent application and let the dough rest for approx. 10 minutes. The dough thus prepared may be used during the next hour. Apply with a metallic spatula in two or more passes, crossing the sense of application until a smooth surface is obtained, with no seams and overlappings. If you want to enhance the mirror effect, finish the hardened product with the metallic spatula, moistened with water.

Fields of use

LG55 can be used as a smoothing of surfaces plastered with gypsum (as our GS08). It can also be used as a finishing for lime-cement plasters, well seasoned,

provided they are free of dust, efflorescence, oils and fats. LG55 should not be used on painted or inconsistent and brittle surfaces. Do not apply on concrete and rehabilitation plasters and in areas or environments where there is still a high rate of humidity. Avoid outdoor use.

Specifications

The interior plaster to be finished should be clean and every inconsistent or unstable part should be removed. On the surface thus prepared, apply the LG55 skim plaster from Fornaci Calce Grigolin, dry premix based on carefully selected inerts, aerial binders and special additives to improve workability and grip, at a rate of 0.8-0.9 kg/m² per mm of thickness. The finish should be applied to hardened product, running over the product with the metal spatula, eventually humidified, until a completely smooth, mirror-like surface is obtained.

Technical data according to UNI EN 13279-1 Standard

| | |
|---|--|
| Classification | B5-50-2 |
| Specific weight | 750 kg/m ³ determined in free fall |
| Maximum diameter | < 0,1 mm |
| Plastic withdrawal | Absent in standard thermohygro-metric conditions |
| Water in the mix | Approx. 50-60% |
| Consumption | 2-3 kg/m ² for 3 mm. thickness |
| Thickness | 3 mm |
| Mechanical resistance to flexion at 28 days | 1,2 N/mm ² |
| Mechanical resistance to compression at 28 days | 2,8 N/mm ² |
| Water vapor permeability μ | 8 |
| Fire resistance | A1 class |
| Thermal conductivity | 0,36 W/mK (tabulated value) |

Disclaimers

Do not mix LG55 with other substances. Avoid extreme heat changes while hardening. The product must be protected from frost and rapid drying (wind or sunlight). We do not recommend using LG55 when temperatures are below +5°C or above +30°C. Do not apply on inconsistent or painted surfaces. Do not use outdoors or on dehumidifying plasters. LG55 should not be covered with coatings or little breathable paints which may possibly prevent carbonatation and the evaporation of residual moisture of the substrate.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



finishings and skim plasters

LG 136

Rasante di finitura a base gesso



Descrizione del prodotto

Premiscelato a secco a base di gesso, calce idrata, inerte calcareo e additivi specifici per migliorare la lavorazione e l'adesione.

Fornitura e stoccaggio

LG 136 viene fornito in sacchi su pallet con estensibile. Stoccare in luogo fresco, asciutto e non ventilato. Mantenere integro l'imballo.



Preparazione supporti e modalità di applicazione

Le superfici devono essere complanari, uniformi, libere da polveri, oli e grassi. Superfici in calcestruzzo o particolarmente lisce vanno tassativamente trattate con il nostro PRG 101 della linea arteMURI. In presenza di elementi di discontinuità dovrà essere inserita nello strato di rasatura una rete in fibra di vetro alcali resistente. Per l'applicazione operare come segue: preparare l'impasto dosando circa 70 lt d'acqua per 100 kg di prodotto secco. Agitare evitando in ogni caso di formare grumi che pregiudicherebbero la successiva applicazione e lasciare riposare per 15 minuti ca. L'impasto così preparato può essere utilizzato nell'ora successiva al fine di evitare problematiche di "sfogliatura" in fase di tinteggiatura. Applicare con la spatola metallica in due o più passate incrociando il senso di applicazione fino ad ottenere una superficie liscia priva di giunture e sormonti. LG 136 deve essere applicato in spessore uniforme e non inferiore a 3 mm. Eventuali imperfezioni del sottofondo andranno eliminate mediante applicazione del prodotto stesso che verrà lasciato indurire prima della successiva passata. Per applicazioni a più strati si raccomanda la posa con la tecnica del bagnato su bagnato. Al fine di garantire la perfetta asciugatura dello strato di finitura si consiglia di arieggiare ampiamente i locali. Prima di procedere alla tinteggiatura è necessario che la superficie trattata con LG136 sia perfettamente asciutta e sottoposta a trattamento con opportuno fissativo.

Campi di impiego

LG 136 può essere utilizzato come lisciatura di superfici intonacate a gesso (come il nostro GS 08); può inoltre essere impiegato come finitura di intonaci calce-legante idraulico, ben stagionati purché liberi da polveri, efflorescenze, oli e grassi.

LG 136 non deve essere applicato su supporti verniciati o inconsistenti e friabili. Non applicare direttamente su calcestruzzo e su intonaci da risanamento e in locali o ambienti in cui persista un tasso di umidità elevata; evitare in ogni caso l'impiego in esterni.

Voci di capitolato

L'intonaco interno da finire deve essere pulito ed ogni parte incoerente o instabile deve essere asportata. Sul supporto così preparato si applica il rasante gesso-calce LG 136 di Fornaci Calce Grigolin, premiscelato a secco a base di inerte accuratamente selezionato, leganti aerei e additivi specifici per migliorare la lavorabilità e l'adesione in ragione di 1 kg/m² per mm di spessore. La finitura deve essere applicata a prodotto indurito, eseguendo più passate utilizzando la spatola metallica, eventualmente inumidita, fino ad ottenere una superficie completamente liscia ed a specchio.

Dati tecnici secondo norma UNI EN 13279-1

| | |
|--|-----------------------------------|
| Granulometria | inferiore a 0,2 mm |
| Acqua di impasto | 18 litri/sacco 25 kg |
| Densità dell'impasto fresco | 1,530 kg/litro |
| Ritenzione d'acqua | superiore a 80 % |
| Tempo d'indurimento nel gabasso | Circa 1 h |
| Spessore da applicare | minimo di 3 mm |
| Consumo teorico per 1 mm di spessore | 1,0 kg/m ² |
| Coefficiente di resistenza al passaggio di vapor d'acqua | $\mu = 8$ |
| Aderenza su intonaco di fondo a base di calce cemento | superiore a 0,3 N/mm ² |
| Comportamento al fuoco | incombustibile |
| Resistenza a flessione | 2,5 N/mm ² |
| Resistenza a compressione | 5,0 N/mm ² |
| Densità dell'intonaco indurito | 1,030 Kg/litro |

Avvertenze

Non mescolare LG 136 con altre sostanze. Evitare forti sbalzi termici nella fase di presa. Il prodotto va protetto dal gelo e dalla rapida essiccazione. Si consiglia di non utilizzare LG 136 con temperature inferiori a + 5°C e superiori a + 35°C. Non applicare su supporti incoerenti o dipinti. Non utilizzare in esterno o sopra intonaci deumidificanti e in presenza di sottofondi con umidità superiore al 2,5%. LG 136 non deve essere ricoperto da rivestimenti o pitture non traspiranti, poiché impediscono la carbonatazione e l'eventuale evaporazione dell'umidità residua del sottofondo.

finishings and skim plasters

FG 55 B

Lime based finish plaster for interior
and exterior surfaces, white color



Product description

Dry premix based on light-colored selected inerts, binders based on high purity aerial lime and low content of soluble salts, small amounts of hydraulic binder and highly biodegradable special additives.

Supply and Storage

FG55B is supplied in bags on pallets with stretch. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface preparation and Application

The surfaces must be level, uniform and humid. Before application, remove any dust caused by "brushing" or scraping. For the application, proceed as follows: Verify that the surface is wet or moisten if necessary. Mix 45 lt of water x 100 kg of dry product, stir well to avoid excessive air incorporation. Let the dough rest for approx. 15 minutes. Apply with metallic spatula into two or more layers crossing direction of application. The material thus applied may be finished with plastic float to obtain the so-called "crushed finishing", or it may also be done with the sponge float, dampened if necessary, to obtain an area without seams and overlappings. If the application is made on absorbent plaster, apply on the plaster a coated of PRG 10 diluted 1:10 or apply the same on the base plaster.

Fields of use

FG55B may be used as an interior finish on new rough plaster (such as our IG14, IG28, FG12, etc.), using the "fresh on fresh" technique. FG55B should not be used on gypsum, painted or inconsistent and brittle surfaces. Do not apply on concrete or on surfaces with irregularities larger than 3-4 mm. Avoid use on completely dried plaster.

Specifications

The plasters to be finished must have surfaces which are perfectly flat and homogeneous. The surfaces thus prepared may be finished with the dry fine mortar FG55B from Fornaci Calce Grigolin, dry premix based on light-colored selected inerts, hydrated lime and special additives to improve workability and grip. The application will be performed by hand with a metallic spatula, applying the material in two layers, crossing the direction of application, up to a thickness not exceeding 3 mm, at a rate of 3-4 kg/m². The finishing will be done with a sponge float.

Technical data according to UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1100 kg/m ³ determined in free fall |
| Maximum diameter | < 0,8 mm |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Water in the mix | Approx. 45% |
| Consumption | 3-4 kg/m ² for 3 mm. thickness |
| Application thickness | 3 mm |
| Mechanical resistance to flexion at 28 days | 0,8 N/mm ² |
| Mechanical resistance to compression at 28 days | 1,1 N/mm ² |
| Water vapor permeability μ | 7 |
| Grip to brick | 0,4 N/mm ² |
| Fracture type (FP) | A |
| Water absorption | W0 |
| Fire resistance | A1 class |
| Thermal conductivity | 0,38 W/mK (tabulated value) |

Disclaimers

Do not mix FG55B with other substances. Avoid extreme heat changes while hardening. The product must be protected from frost and rapid drying (wind or sunlight). We do not recommend using FG55B when temperatures are below +5°C or above +30°C. FG55B should not be covered with coatings or little breathable paints which may possibly prevent carbonatation and the evaporation of residual moisture of the substrate, thus giving birth to cracks or peeling of the finish itself.

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finishings and skim plasters

FG 56 B

Finish plaster for interior and exterior
surfaces, white color



Product description

Dry premix based on light-colored selected inerts, hydrated lime and special additives.

Supply and Storage

FG56B is supplied in bags on pallets with stretch. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface preparation and Application

The surfaces must be level, uniform and humid. Before application, remove any dust caused by "brushing" or scraping. For the application, proceed as follows: Verify that the surface is wet or moisten if necessary. Mix 35 lt of water x 100 kg of dry product, stir well to avoid excessive air incorporation. Let the dough rest for approx. 15 minutes. Apply with metallic spatula into two or more layers crossing direction of application. The material thus applied may be finished with plastic float to obtain the so-called "crushed finishing", or it may also be done with the sponge float, dampened if necessary, to obtain an area without seams and overlappings. If the application is made on absorbent plaster, apply on the plaster a coated of PRG 10 diluted 1:10 or apply the same on the base plaster.

Fields of use

FG56B may be used as an interior finish on new rough plaster (such as our IG14, IG28, FG12, etc.), using the "fresh on fresh" technique. FG56B should not be used on gypsum, painted or inconsistent and brittle surfaces. Do not apply on concrete or on surfaces with irregularities larger than 3-4 mm. Avoid use on completely dried plaster.

Specifications

The interior and exterior plasters to be finished must have surfaces which are perfectly flat and homogeneous. The surfaces thus prepared may be finished with the dry fine mortar FG56B from Fornaci Calce Grigolin, dry premix based on light-colored selected inerts, hydraulic binder, hydrated lime and special additives to improve workability and grip. The application will be performed by hand with a metallic spatula, applying the material in two layers, crossing the direction of application, up to a thickness not exceeding 3 mm, at a rate of 3-4 kg/m². The finishing will be done with a sponge float.

Technical data according to UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1200 kg/m ³ determined in free fall |
| Maximum diameter | < 0,8 mm |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Water in the mix | Approx. 35% |
| Consumption | 3-4 kg/m ² for 3 mm. thickness |
| Application thickness | 3 mm |
| Mechanical resistance to flexion at 28 days | 0,8 N/mm ² |
| Mechanical resistance to compression at 28 days | 1,4 N/mm ² |
| Water vapor permeability μ | 7 |
| Grip to brick | 0,5 N/mm ² |
| Fracture type (FP) | A |
| Water absorption | W0 |
| Fire resistance | A1 class |
| Thermal conductivity | 0,38 W/mK (tabulated value) |

Disclaimers

Do not mix FG56B with other substances. Avoid extreme heat changes while hardening. The product must be protected from frost and rapid drying (wind or sunlight). We do not recommend using FG56B when temperatures are below +5°C or above +30°C. FG56B should not be covered with coatings or little breathable paints which may possibly prevent carbonatation and the evaporation of residual moisture of the substrate, thus giving birth to cracks or peeling of the finish itself.

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screeds

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screeds

The products and solutions of the screeds line of Fornaci Calce Grigolin allow for the obtaining of substrates in line with regulations regarding soundproofing and are suitable for the subsequent installation of flooring, carpeting, wooden floors and linoleum destined for civilian constructions and the tertiary sector.

In order to meet the needs of its customers and to enhance the quality of its products, Grigolin was the first company to propose an innovative system of completely autonomous mobile mixing stations, with an own generator, which require on-site only the presence of clean water and are able to operate in situations where it would not be possible to intervene with traditional methods.

The technology and innovation coupled with the presence of a professional and qualified staff allow for the obtaining of a high quality result.



screeds

AR 97

Self-levelling screed



Product description

Dry premix based on inerts selected in an adequately reconstructed curve, special hydraulic binders and special additives.

Supply and Storage

AR97 is supplied in bulk with silo plants of 20 m³ or mobile stations and in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface to be filled with self-levelling AR97, where there is no underfloor heating mat or sound-absorbant from the GRIGOACUSTICA line, must be carefully covered with a sheet of polyethylene or PVC, taking care to overlap the joints for at least 25 cm. Fasten the plastic sheet all along the walls and pillars with any kind of tape from compressible material; once done, we can move to the positioning of reference levels. Mix AR97 with a horizontal mixer connected directly to the silo or, for the material supplied in bags, mix with about 15% water by suitable continuous mixer-pump, horizontal type. In either case, add water to achieve the desired dough consistency and send the product to the point of installation by screw-lung pump-type. In order to obtain an optimal end result, is the recommended to cut the product at door level, any protrusions, etc. inserting, in the process of installation, the appropriate coverings or, executing on the product once it has reached the consistency when it can be walked on, but no later than 36 hours, appropriate splitting joints.

Fields of use

AR97 is a self-levelling screed suitable for the preparation of substrates for the subsequent installation of ceramic flooring, carpeting, wooden floors, linoleum, resilient flooring, for civilian constructions and the tertiary sector. It can be applied to surfaces in light concrete, expanded cement and cement screeds in general, provided that the surface has been made independent through a vapor barrier and splitting joints. Particularly suitable for underfloor heating. For surfaces other than those listed, please consult our technical service.

Specifications

The interior substrates, of whose thickness exceeds 3 cm, will be made with the cement-based, self-levelling screed like AR97 from Fornaci Calce Grigolin, a dry premix based on selected inerts, special hydraulic binders and special additives to improve workability, which does not require the addition of further inerts or binders or additives. Mix only with water in order to obtain a screed with a compression strength at 28 days above 20 N/mm² and a flexion strength in excess of 5 N/mm². The surface on which the screed will be laid must be covered with a vapor barrier and bounded with high splitting joints.

Technical data according to the UNI EN 13813 Standard

| | |
|---|--|
| Classification | CT - C20 - F5 |
| pH | Base |
| Time till walk-on | 12-24 ours |
| Consumption | 19 kg/m ² per cm of thickness |
| Maximum diameter | 3 mm |
| Specific weight | 1700 kg/m ³ |
| Water in the mix | Approx. 15% |
| Minimal application thickness | 3 cm |
| Pot life | Approx. 30 min. after mixing |
| Hygrometric withdrawal | < to 350 micron/m |
| Mechanical resistance to flexion at 28 days | 5 N/mm ² (F5) |
| Mechanical resistance to flexion at 28 days | 20 N/mm ² (C20) |
| Drying time at 20°C and 50% R.H. | 1 week per cm. of thickness, up to 4 cm. |
| Fire resistance | Class A1 fl |
| Thermal conductivity | 1,40 W/mK (tabulated value) |
| Volume mass | 2100 kg/m ³ |

Disclaimers

PRODUCT FOR PROFESSIONAL USE.

Do not mix AR97 with other substances. Avoid strong ventilation by closing windows in the 48 hours after application and subsequently ventilate the premises in order to facilitate the drying of the screed. The laying on heated floors does not require the use of flowing agents as these are already contained in the product formula. Do not use AR97 when temperatures are below +5°C or above +30°C. Do not apply on frozen surfaces. Never apply a thicknesses below 3 cm. For thicknesses greater than 6 cm, consult with our technical service. The application of wooden or generally resilient flooring, should only be done after the screed has achieved a moisture level lower than 2%, noting the latter by a carbide hygrometer. Remember that, for thicknesses greater than 4 cm, the drying time is 15 days for every subsequent cm. applied. The use of adhesives for vinyl flooring type is only recommended for sizes up to 25x5 cm and only after the screed has been previously treated with a primer compatible with the particular type of glue. For laying ceramic floorings on screeds not fully matured or when there is underfloor heating, we recommend the use of flexible adhesives such as our own Grigokoll Bianco and Grigokoll Grigio.

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AR 109

Massetto autolivellante tradizionale



Descrizione del prodotto

Premiscelato a secco a base di inerte selezionato in curva adeguatamente ricomposta, leganti idraulici speciali e additivi specifici.

Fornitura e stoccaggio

AR 109 viene fornito sfuso con impianti silo da 20 m³ o stazioni mobili e in sacchi su pallet con estensibile. Stoccare in luogo fresco, asciutto e non ventilato. Mantenere integro l'imballo. Utilizzare entro la data di scadenza riportata sul sacco.

Preparazione supporti e modalità di applicazione

Sui supporti da ricoprire con il massetto autolivellante AR 109, dove non vi sia riscaldamento a pavimento o materassino fonoassorbente della linea GRIGOACUSTICA, dovrà essere steso accuratamente un foglio in polietilene o PVC, avendo cura di sormontare le giunzioni per almeno 25 cm. Fissato il tutto lungo le pareti ed eventuali pilastri con nastro in materiale comprimibile, si può passare a posizionare i livelli di riferimento.

Impastare AR 109 mediante apposito mescolatore di tipo orizzontale collegato direttamente al silo o, per la fornitura in sacchi, impastare con circa il 14% d'acqua mediante idoneo mescolatore-pompa in continuo di tipo orizzontale. In entrambi i casi aggiungere acqua fino a ottenere un impasto dalla consistenza desiderata e inviare il prodotto al punto di posa mediante pompa di tipo vite-pompe. Al fine di ottenere un risultato finale ottimale è consigliabile sezionare il massetto in corrispondenza di porte, eventuali sporgenze, ecc. inserendo, in fase di stesura, degli appositi setti o eseguendo a impasto pedonabile, ma non oltre le 36 ore successive, dei giunti di frazionamento.

Campi di impiego

AR 109 è un massetto autolivellante idoneo per la preparazione di sottofondi per la successiva posa di pavimenti ceramici, moquette, parquet, linoleum, pavimenti resilianti, destinati all'edilizia abitativa e al terziario. Può essere applicato su supporti in calcestruzzo alleggerito, cemento espanso e massetti cementizi in genere, fermo restando che lo stesso sia reso indipendente mediante barriera vapore e giunto salvabordo. Per applicazioni su impianti di riscaldamento a pavimento o per supporti diversi da quelli elencati consultare il nostro servizio tecnico.

Voci di capitolato

I sottofondi interni, dello spessore superiore ai 4 cm, saranno realizzati con il massetto autolivellante a base cementizia del tipo AR 109 di Fornaci Calce Grigolin, premiscelato a secco a base di inerte selezionato, leganti idraulici speciali e additivi specifici per migliorare la lavorabilità, che non necessita dell'aggiunta di inerti o leganti o additivi. Miscelare con sola acqua al fine di ottenere un massetto con resistenza meccanica a compressione a 28 gg superiore a 18 N/mm² e resistenza meccanica a flessione superiore a 4 N/mm². La superficie su cui sarà posato tale massetto sarà coperta con barriera vapore e delimitata con giunto salvabordo.

Dati tecnici secondo norma UNI EN 13813

| | |
|-----------------------------------|---|
| Classificazione | CT - C16 - F4 |
| pH | Basico |
| Pedonabilità | 24 ore in funzione delle condizioni di posa |
| Consumo teorico | 19 kg/m ² per cm di spessore |
| Diametro massimo | 3 mm |
| Peso specifico | 1700 kg/m ³ det. in caduta lib. |
| Acqua d'impasto | 14% circa |
| Spess. minimo di appl. | 4 cm |
| Tempo d'impiego | 30 minuti ca. dopo l'impasto |
| Ritiro igrometrico | < a 350 micron/m |
| Res mecc a fless. a 28 gg | 4 N/mm ² (F4) |
| Res mecc a compress. a 28 gg | 18 N/mm ² (C16) |
| Tem. di asciug. a 20°C e 50% U.R. | 15 gg x cm. di spess. fino a 4 cm |
| Reazione al fuoco | Classe A1 fl |
| Conducibilità termica | 1,40 W/mK (valore tabulato) |
| Massa volumica | 2100 kg/m ³ |

Avvertenze

PRODOTTO PER USO PROFESSIONALE.

Non mescolare AR 109 con altre sostanze. Evitare forte ventilazione mediante la chiusura delle forometrie nelle 48 ore successive all'applicazione, provvedendo successivamente ad arieggiare i locali al fine di favorire l'essiccamento del massetto. La posa su impianti di riscaldamento a pavimento non richiede l'utilizzo di agenti fluidificanti poiché già contenuti nella formulazione del prodotto. Si consiglia di non utilizzare AR 109 con temperature inferiori a + 5°C e superiori a +30°C. Non applicare su supporti gelati. Non applicare in ogni caso con spessori inferiori ai 4 cm. Per spessori superiori ai 6 cm consultare il nostro servizio tecnico. L'applicazione di pavimenti in legno o resilianti, in genere, deve essere applicata solo al raggiungimento di un tasso di umidità nel massetto inferiore al 2%, rilevando quest'ultimo mediante igrometro a carburo. Si ricorda che, per spessori superiori a 4 cm, il tempo di asciugamento è variabile in funzione delle condizioni di posa. L'utilizzo di collanti per parquet di tipo vinilico è consigliato solo per formati massimi di 25x5 cm e solo dopo aver obbligatoriamente trattato il massetto con primer compatibile al tipo di collante. Per la posa di pavimenti in ceramica sul massetto non completamente stagionato o in presenza di riscaldamento a pavimento è consigliabile l'impiego di collanti flessibili come i nostri Grigokoll Bianco e Grigokoll Grigio.



screeds

SF 300

Hydraulic sand-binding screed,
traditional type



Product description

Dry premix based on inerts selected in an adequately reconstructed curve from 0 to 3 mm., hydraulic binders (dosage 250 kg/m³) and special additives.

Supply and Storage

SF300 is supplied in bulk with silo plants of 22 m³ and in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surfaces to be filled with SF300 screed must be free from dust, efflorescence, oils and fats. Before laying the screed, check the moisture of the surface in order not to affect the normal drying of the substrate itself. The SF300 screed can be mixed in concrete mixers (for the material supplied in bags) or in screw-mixer (for the material supplied in silo) until it reaches a texture similar to moist soil.

The material thus prepared should be applied in an uniform manner and, after it is compacted, even off with the aluminum level and finish with a float or a rotating disc machine.

Fields of use

SF300 is a screed suitable for the preparation of substrates, interior and exterior, for the subsequent installation of ceramic flooring, carpeting, wooden floors, linoleum, etc.

Specifications

The interior and exterior surfaces will be made with the traditional hydraulic sand-binding screed SF300 from Fornaci Calce Grigolin, dry premix based on selected inerts, hydraulic binders and special additives to improve workability; it does not require the addition of inert or binders or additives; to be mixed only with water until it reaches a texture similar to moist soil.

Technical data according to the UNI EN 13813 Standard

| | |
|---|--|
| Classification | CT - C20 - F5 |
| Specific weight | 1800 kg/m ³ |
| Maximum diameter | 3 mm |
| Pot life | 1 h |
| Water in the mix | until texture similar to moist soil (approx. 8%) |
| Minimal application thickness | 4 cm |
| Consumption | 20 kg/m ² per cm of thickness |
| Fire resistance | A1 class FL |
| Mechanical resistance to flexion at 28 days | 5 N/mm ² (F5) |
| Mechanical resistance to compression at 28 days | 20 N/mm ² (C20) |

Disclaimers

Do not mix SF300 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using SF300 when temperatures are below +5°C or above +30°C.



screeds

LR 30

Hydraulic binder for the preparation of normal-curing, fast-drying screeds



Product description

Hydraulic binder for the preparation of normal-curing, fast-drying screeds. Due to its special formula, it allows for operation in accordance to traditional time-table and installation system.

Supply and Storage

LR30 is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surfaces to be covered with the screed prepared with a binding mixture of LR30 + sand, in a ratio of 200-250 kg of binder per 1 m³ of inerts, must be free of dust, efflorescence, oils and fats. Before laying the screed, check the moisture of the surface keeping in mind the fact that, should this be present, by installing a vapor barrier, it will tend to move along the walls. After having carefully laid a sheet of polyethylene or PVC, fastened all along the walls and pillars with any kind of tape from compressible material, you may proceed to the preparation of the product.

For higher thicknesses, such screeds may be reinforced with arc-welded with 20x20 mesh, remembering to keep it raised from the ground so that it is covered by at least 1.5-2 cm in screeds. The screed can be prepared in a normal cement mixer or knead by continuous mixer, observing the following order of insertion: water, dry material (binder + previously dry-mixed inert), until it reaches a texture similar to moist soil. The material prepared as described

above should be evenly spread out, compacted and evened off with the aluminum level and finished with a float or a rotating disc machine.

Fields of use

LR30 is a suitable binder, after the mixing with aggregates of appropriate size (0-8 mm), for the preparation of substrates suitable for the installation of ceramic and wooden floors, carpeting, linoleum. After 7 days, it allows the substrate to achieve a residual humidity of less than 2%.

Specifications

The substrates will be made with the normal-curing, fast-drying hydraulic binder of the LR30 type from Fornaci Calce Grigolin, at a rate of 200-250 kg/m³ of inerts with particle size from 0-8 mm, with the addition of water until the product reaches a texture similar to moist soil. This result will have a compression strength at 28 days of 20 N/mm² and residual humidity after 7 days, less than 2% for thicknesses of 4 cm.

Technical data

| | |
|--|-------------------------------------|
| Maximum diameter of inerts to be used in the mix | 8 mm |
| Mixing duration | max. 3 min |
| Water in the mix | until texture similar to moist soil |
| Minimum application thickness | 4 cm |
| Binder dosage | 200-250 kg/m ³ of inerts |
| Pot life | 1 h |
| Mechanical resistance to compression at 28 days | 20 N /mm ² |
| Mechanical resistance to flexion at 28 days | 5 N /mm ² |
| Fire resistance | Class A1 FL |
| Curing time at 20°C and 50% relative humidity | 1 week for thicknesses of 4 cm. |

Disclaimers

Do not mix LR30 with other substances. Avoid extreme changes in heat while hardening. Protect from freezing. Do not use LR30 when temperatures are below +5°C or above +30°C. Do not apply on frozen surfaces. Do not exceed 3 minutes when mixing and do not exceed the recommended water dosage, as this may reduce mechanical resistance and curing speed. For thicknesses exceeding 4 cm., curing time is 4 days for each subsequent cm. applied.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



screeds

SR 31

Normal-curing, fast-drying traditional screed



Product description

Dry premix based on inerts selected in an adequately reconstructed curve from 0 to 3 mm., special hydraulic binders and specific additives for the preparation of fast-drying screeds in accordance to traditional time-table and installation system.

Supply and Storage

SR31 is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

Before laying the screed, check the moisture of the surface keeping in mind the fact that, should this be present, by installing a vapor barrier, it will tend to move along the walls. After having carefully laid a sheet of polyethylene or PVC, fastened all along the walls and pillars with any kind of tape from compressible material, you may proceed to the preparation of the product. For higher thicknesses, such screeds may be reinforced with arc-welded with 20x20 mesh, remembering to keep it raised from the ground so that it is covered by at least 1.5-2 cm in screeds. The screed can be prepared in a normal cement mixer or knead by continuous mixer, observing the following order of insertion: water, dry material, until it reaches a texture similar to moist soil. The material prepared as described above should be evenly spread out, compacted and evened off with the aluminum level and finished with a float or a rotating disc machine.

Fields of use

SR31 is suitable for the preparation of substrates suitable for the installation of

ceramic and wooden floors, carpeting, linoleum, for housing and the tertiary sector. It may be applied onto light concrete, expanded cement and cement screeds generally, taking care to isolate it with a vapor barrier and splitting joints. After 8 days, the substrate achieves a residual humidity below 2%. For surfaces other than those listed, please consult our technical service.

Specifications

The substrates will be made with the normal-curing, fast-drying cement screed SR31 from Fornaci Calce Grigolin, dry premix based on selected inerts, special hydraulic binders and special additives to improve workability. SR31 does not require the addition of inerts or binders. Mix only with water to obtain a screed having the following characteristics: mechanical resistance to compression at 28 days exceeding 20 N/mm², flexural strength at 28 days exceeding 5 N/mm² and residual humidity after 8 days, less than 2% for a 4 cm thickness. The surface on which the screed is laid that will be covered with vapor barrier and bounded with splitting joints.

Technical data according to the UNI EN 13813 Standard

| | |
|---|--|
| Classification | CT - C20 - F5 |
| Inert diameter | 3 mm |
| Mixing duration | 3 min |
| Water in the mix | until texture similar to moist soil (approx. 8%) |
| Minimum application thickness | 4 cm |
| Consumption | 20 kg/m ² per cm of thickness |
| Pot life | approx. 30 min. |
| Mechanical resistance to flexion at 28 days | 5 N/mm ² (F5) |
| Mechanical resistance to compression at 28 days | 20 N/mm ² (C20) |
| Fire resistance | Class A1 fl |
| Curing time at 20°C and 50% relative humidity | 8 days for thicknesses of 4 cm. |
| pH | Basic |
| Time till it may be walked upon | 24 ours |

Disclaimers

Do not mix SR31 with other substances. Avoid extreme changes in heat while hardening. Protect from freezing. Do not use SR31 when temperatures are below +5°C or above +30°C. Do not apply on frozen surfaces. Do not exceed 3 minutes when mixing and do not exceed the recommended water dosage, as this may reduce mechanical resistance and curing speed. For thicknesses exceeding 4 cm., curing time is 4 days for each subsequent cm. applied. The application of wood or resilient flooring, in general, should only be performed after the moisture level has achieved a value less than 2%, observing this level with a carbide hygrometer.



screeds

NEODUR

Cement-based mineral premix for cement industrial pavements



Product description

Dry mineral premix, ready-to-use, based on special cements, spheroidal quartz of natural origin and special additives for the production of wear coats on concrete industrial floors. NEODUR is manufactured according to the DIN 18557 Standard, which regulates products for industrial floors.

Supply and Storage

NEODUR is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place, using the same precautions taken for cement. Keep packaging intact. Use product within the next 6 months after production date stated on the bag.

Surface Preparation and Application

NEODUR is used in the production of industrial screeds. The essential condition for proper working of NEODUR is the right consistency of concrete or screeds. The surface of screed or concrete floor should be fit for use. At this point, the concrete or screed is finished using a suitable machine, in order to concentrate the binder of the concrete itself, on the surface. Then, apply NEODUR uniformly and on a dry state. Immediately after the penetration of the compound, process NEODUR using a rotating disk.

Fields of use

NEODUR is used in the production of industrial floors with the aim to improve the surface hardness and increase the

wear and tear resistance (for industrial production and storage warehouses). Used in civil construction and housing (garages, ramps, etc.). For interior and exterior use.

Post-treatment

The difference in temperature may influence the hardening process. The surface of the floor on which NEODUR was applied must be protected from excessive evaporation.

Production and control

Manufacturer: Fornaci Calce Grigolin GmbH in the ETTLINGEN (D) plant, after a receipt by and in cooperation with KO-RODUR Westphal Hartbeton GmbH & co. Control: ZLB Zemlabor Beckum Certification: DIN EN ISO 9001: 2000

Technical data

| | |
|---|---|
| Product composition | mix of quartz aggregate, round shape and special cements |
| Hardness according to Mohs | 7-8 |
| Particle size | 0-3 mm |
| Mechanical resistance to compression at 28 days | > 75 N/mm ² |
| Consumption | 3-5 kg/m ² (approx. 1.5 kg/m ² for each mm. of thickness) |

Disclaimers

Do not mix NEODUR with other substances. Avoid extreme changes in heat while hardening. Protect from freezing. Do not use NEODUR when temperatures are below +5°C or above +30°C. Proceed with appropriate curing measures, in order to ensure best physical and mechanical results of the pavement itself.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



screeds light products

CC 33

Cement-based, light screed



Product description

The CC33 light screed from Fornaci Calce Grigolin is a lightweight cementitious conglomerate, composed of hydraulic binder, lightweight aggregate and specific additive (colloidal foam).

Supply and Storage

The CC33 light screed is delivered directly on the construction site using completely independent mobile mixing stations, equipped with their own generators. They allow for a reduced dispersion of the polystyrene in the environment, a decreased quantity of waste (polyethylene bags) and they can operate in virtually any situation of the construction yard.

Surface Preparation and Application

The light screed is laid directly on the cope in order to create the background for the subsequent installation of traditional or self-leveling screeds. The product, mixed in mobile mixing stations in an automated manner, is pumped directly to the point of laying to form a floor with a thickness of no less than 5 cm.

Fields of use

The CC33 light screed has numerous fields of application, ranging from preparation of roof and terrace slopes to the rehabilitation of fretted metal sheet roofings, from the insulation of attics to filling excavation, foundations, gutters, etc. It is particularly suitable for the construction of surfaces suitable for subsequent installation of floor heating systems as it allows for the obtaining

a good flatness of the jets carried out and a maximum uniformity of product. Moreover, it is suitable as a substrate for civil and industrial pavements.

Specifications

The substrates will be made with the cement-based, light screed CC33 from Fornaci Calce Grigolin, at a rate of 250-330 kg/m³ of type-II A/LL 32.5 R cement. The material has a compression strength at 28 days of 0.5-0.9 N/mm² and will be produced with automatic equipment with computerized system for adjusting the mixture and continuous production and pumped to the installation point for the production of screeds with a thickness of at least 5 cm. It is also possible to produce lightweight substrates with sloping surfaces up to 2%.

Technical data

| | |
|---|---|
| Cement dose | 300 kg/m ³ |
| Synthetic foam dose | approx. 1.6 liter |
| Foam dose | approx. 747 liters (density 50/60 g./l.) |
| Ground (recycled) polystyrene dose | NO |
| Water | 150 liters |
| Wet specific weight | 522 kg/m ³ |
| Dry specific weight | approx. 480 kg/m ³ (varies according to curing conditions) |
| Mechanical resistance to compression at 28 days | min 0,85 N/mm ² |
| Absorbition 60% relative humidity | NO |
| Thermal conductivity | 0,099 W/mK |
| Water vapor permeability | 6 |
| Fire resistance | non inflammable |

Disclaimers

Do not install the substrate when temperatures are below +5°C or above +30°C. Wait for the curing of the substrate before installing the screed. Do not install pavements directly onto the substrate. Install a vapor barrier before laying the substrate if the lower level is inhabited or if the ceiling is made of wood. For other information, contact our technical service.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



screeds light products

PB 25

Cement-based, light screed



Product description

The PB25 light screed from Fornaci Calce Grigolin is a lightweight cementous conglomerate, composed of hydraulic binder, lightweight aggregate (PB25 and PB30) and specific additive (colloidal foam).

Supply and Storage

The PB25 light screed is delivered directly on the construction site using completely independent mobile mixing stations, equipped with their own generators. They allow for a reduced dispersion of the polystyrene in the environment, a decreased quantity of waste (polyethylene bags) and they can operate in virtually any situation of the construction yard.

Surface Preparation and Application

The light screed is laid directly on the the cope in order to create the background for the subsequent installation of traditional or self-leveling screeds. The product, mixed in mobile mixing stations in an automated manner, is pumped directly to the point of laying to form a floor with a thickness of no less than 5 cm.

Fields of use

The PB25 light screed has numerous fields of application, ranging from preparation of roof and terrace slopes to the rehabilitation of fretted metal sheet roofings, from the insulation of attics to filling excavation, foundations, gutters, etc. It is particularly suitable for the construction of surfaces suitable for subsequent installation of floor heating systems as it allows for the obtaining

a good flatness of the jets carried out and a maximum uniformity of product. Moreover, it is suitable as a substrate for civil and industrial pavements.

Specifications

The substrates will be made with the cement-based, light screed PB25 from Fornaci Calce Grigolin, at a rate of 250-330 kg/m³ of type-II A/LL 32.5 R cement. The material has a compression strength at 28 days of 0.5-0.9 N/mm² and will be produced with automatic equipment with computerized system for adjusting the mixture and continuous production and pumped to the installation point for the production of screeds with a thickness of at least 5 cm. It is also possible to produce lightweight substrates with sloping surfaces up to 2%.

Technical data

| | |
|--------------------------------------|---|
| Cement dose | 250 kg/m ³ |
| Synthetic foam dose | approx. 1.0 liters |
| Foam dose | approx. 382 liters (density 50/60 g./l.) |
| Ground (recycled) polystyrene dose | 400 liters (density 10/15 g./l.) |
| Water | 140 liters |
| Wet specific weight | 416 kg/m ³ |
| Dry specific weight | approx. 390 kg/m ³ (varies according to curing conditions) |
| Resistance to compression at 28 days | min 0,5 N/mm ² |
| Absorbition 60% relative humidity | 3% |
| Thermal conductivity | 0,069 W/mK |
| Water vapor permeability | 3 |
| Fire resistance | non inflammable |

Disclaimers

Do not install the substrate when temperatures are below +5°C or above +30°C. Wait for the curing of the substrate before installing the screed. Do not install pavements directly onto the substrate. Install a vapor barrier before laying the substrate if the lower level is inhabited or if the ceiling is made of wood. For other information, contact our technical service.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



screeds light products

PB 30

Cement-based, light screed



Product description

The PB30 light screed from Fornaci Calce Grigolin is a lightweight cementous conglomerate, composed of hydraulic binder, lightweight aggregate (PB25 and PB30) and specific additive (colloidal foam).

Supply and Storage

The PB30 light screed is delivered directly on the construction site using completely independent mobile mixing stations, equipped with their own generators. They allow for a reduced dispersion of the polystyrene in the environment, a decreased quantity of waste (polyethylene bags) and they can operate in virtually any situation of the construction yard.

Surface Preparation and Application

The light screed is laid directly on the the cope in order to create the background for the subsequent installation of traditional or self-leveling screeds. The product, mixed in mobile mixing stations in an automated manner, is pumped directly to the point of laying to form a floor with a thickness of no less than 5 cm.

Fields of use

The PB30 light screed has numerous fields of application, ranging from preparation of roof and terrace slopes to the rehabilitation of fretted metal sheet roofings, from the insulation of attics to filling excavation, foundations, gutters, etc. It is particularly suitable for the construction of surfaces suitable for subsequent installation of floor heating systems as it allows for the obtaining

a good flatness of the jets carried out and a maximum uniformity of product. Moreover, it is suitable as a substrate for civil and industrial pavements.

Specifications

The substrates will be made with the cement-based, light screed PB30 from Fornaci Calce Grigolin, at a rate of 250-330 kg/m³ of type-II A/LL 32.5 R cement. The material has a compression strength at 28 days of 0.5-0.9 N/mm² and will be produced with automatic equipment with computerized system for adjusting the mixture and continuous production and pumped to the installation point for the production of screeds with a thickness of at least 5 cm. It is also possible to produce lightweight substrates with sloping surfaces up to 2%.

Technical data

| | |
|--------------------------------------|---|
| Cement dose | 300 kg/m ³ |
| Synthetic foam dose | approx. 1.0 liters |
| Foam dose | approx. 367 liters (density 50/60 g./l.) |
| Ground (recycled) polystyrene dose | 400 liters (density 10/15 g./l.) |
| Water | 140 liters |
| Wet specific weight | 466 kg/m ³ |
| Dry specific weight | approx. 445 kg/m ³ (varies according to curing conditions) |
| Resistance to compression at 28 days | min 0,8 N/mm ² |
| Absorbtion 60% relative humidity | 3% |
| Thermal conductivity | 0,072 W/mK |
| Water vapor permeability | 3 |
| Fire resistance | non inflammable |

Disclaimers

Do not install the substrate when temperatures are below +5°C or above +30°C. Wait for the curing of the substrate before installing the screed. Do not install pavements directly onto the substrate. Install a vapor barrier before laying the substrate if the lower level is inhabited or if the ceiling is made of wood. For other information, contact our technical service.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



screeds insulation systems

GRIGOSTAR

Closed-cell, expanded polyethylene, CFC and HCFC free



Technical data

| | | |
|--|----------------|------------------|
| Thickness | mm 5 | |
| Density | kg/m³ 30 | DIN 53420 |
| Resistance to compression | | |
| - at 25% (4. compression) | N/mm² 0,031 | DIN 53577 |
| - at 50% (4. compression) | N/mm² 0,091 | DIN 53577 |
| - at 70% (4. compression) | N/mm² 0,221 | DIN 53577 |
| Elongation at break | | |
| - longitudinal | mm 70 | DIN 53571 |
| - transversal | mm 65 | DIN 53571 |
| Traction resistance | | |
| - longitudinal | N/mm² 0,318 | DIN 53571 |
| - transversal | N/mm² 0,227 | DIN 53571 |
| Thermal resistance (24h at 70°C) | % < 3 ASTM | D-3575-S |
| Dynamic rigidity S2 | MN/m³ 48,00 | |
| Sound pressure level of normal cured product regarding the reverberation time according to the UNI EN ISO 140-7: 2000 Standard (assessment based on measurement results obtained using a project method) | | |
| - under 4 cm. screed | L'nT,w = 53 dB | |
| Creep Test (1 psi) | | |
| - after 1 hour | % < 3 | ASTM D-3575-BB |
| - after 24 hours | % < 5 | ASTM D-3575-BB |
| - after 168 hours | % < 9 | ASTM D-3575-BB |
| Water absorbtion (after 24 hours) | Vol % 0,7 | DIN 53428 |
| Thermal conductivity | W/mK 0,055 | ASTM C-177 |
| Cell size | Cells/25mm≥26 | BS 4443/1 Met. 4 |
| Processing temperature | °C - 30 : + 80 | Internal |
| Size of standard rolls | | |
| - length | m 100 | |
| - width | m 1,5 | |
| Color | Green | |

Caution: this information is provided in good faith and is representative for average production

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Formai Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

screeds insulation systems

GRIGOBIT

Universal acoustic coat, composed from a 3 mm. extruded PE foil (Grigostar) conjoined with an SBS elastomeric membrane



Technical data

| | |
|-------------|------------------------|
| Grigostar | Expanded extruded foam |
| - thickness | mm ³ |
| - density | 30 kg/m ³ |

| | |
|--------------------------|---------------------|
| SBS elastomeric membrane | |
| - thickness | mm 3,5 |
| - weight | kg/m ² 4 |

| | |
|---------------------|-------------------------|
| Dynamic rigidity S2 | MN/m ³ 69,00 |
|---------------------|-------------------------|

Sound pressure level of normal cured product regarding the reverberation time according to the UNI EN ISO 140-7: 2000 Standard (assessment based on measurement results obtained using a project method)

| | |
|----------------------|----------------|
| - under 4 cm. screed | L'nT,w = 53 dB |
| - under 6 cm. screed | L'nT,w = 53 dB |
| - under 8 cm. screed | L'nT,w = 47 dB |

| | |
|------------------------|-----|
| Size of standard rolls | |
| - length | m 5 |
| - width | m 1 |

Caution: this information is provided in good faith and is representative for average production.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

screeds insulation systems

GRIGOCELL ONDA

Closed-cell, expanded polyethylene, CFC and HCFC free, conjoined with aluminated PPE



Technical data

| | | |
|--|------------------------------|-----------------|
| Density | kg/m ³ 30 | DIN 53420 |
| Weight | g/m ² 180 | DIN 53352 |
| Elongation at break | | |
| - longitudinal | % 74 | DIN 53571 |
| - transversal | % 56 | DIN 53571 |
| Traction resistance | | |
| - longitudinal | N 53 | DIN 53571 |
| - transversal | N 27 | DIN 53571 |
| Resistance to compression | | |
| - at 25% (4th compression) | N/mm ² 100 | DIN 53577 |
| - at 50% (4th compression) | N/mm ² 500 | DIN 53577 |
| - at 70% (4th compression) | N/mm ² 1500 | DIN 53577 |
| Dynamic rigidity S2 | MN/m ³ 25,02 | |
| Sound pressure level of normal cured product regarding the reverberation time according to the UNI EN ISO 140-7: 2000 Standard (assessment based on measurement results obtained using a project method) | | |
| - under 4 cm. screed | L'nT,w = 50 dB | |
| Creep Test (1 psi) (168 h) | % <11 ASTM | D-3575-BB |
| Thermal resistance (24h at 70°C) | % <3 ASTM | D-3575-F |
| Thermal conductivity | W/mK 0,044 | ASTM C-177 |
| Cell size | Cells/25 mm ² ≥22 | BS 4443/1 Met 4 |
| Processing temperature | °C -30; +70 | Internal |
| Standard product size | | |
| - length | m 50 | |
| - width | m 1,2 | |
| - thickness | circa mm 8 | |
| Product type | Expanded foam | |
| Color | Green + aluminated PPE | |

Caution: this information is provided in good faith and is representative for average production.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



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The formula of the Grigonova line for rehabilitation uses the latest technologies and most innovative materials currently in use in the production of products used in dehumidifying. That is why the Grigonova line ensures the optimum balance between waterproofing performance, dehumidifying and mechanical performances. Moreover, Grigonova has been formulated following the guidelines and parameters of the WTA, the community of Technical Scientific Research for the conservation of Urban Buildings and the protection of Monuments. Due to its compliance with these specifications, the Grigonova products are ten times better than a normal plaster.



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GRIGONOVA RINZAFFO

Curing roughcast based on
sulphate-resistant binders



Product description

Dry premix based on a mixture of carefully selected special inerts, a mixture of hydraulic binders, highly resistant to salt and additives aimed at improving workability and grip.

Supply and Storage

GRIGONOVA RINZAFFO is supplied in 25 kg. bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

Follow carefully the guidelines as reported in technical Specifications. For the preparation of the dough, in the case of mechanical application, use the plastering machine fitted with a standard mixer but with the help of "turbo", "rotorquill" or similar mixer. For manual applications, the mixing should be done using about 5 liters of water per 25 kg. sack, using a concrete mixer or a rotary hammer drill and should last for about 3 minutes to obtain a homogeneous mortar without lumps and of fluid consistency, which can provide good stability to the wall. The special function of the GRIGONOVA RINZAFFO premix does not recommend the manual application of the product.

Fields of use

GRIGONOVA RINZAFFO is used as adhesion plaster, either manual or mechanic, for interior and exterior surfaces like brick, blocks, etc. prior to the application of the GRIGONOVA system. It finds particular use in restoration work, for homogenizing the surfaces to be plastered with plasters like our own GRIGONOVA POROSO and GRIGONOVA RISANA. The application must be performed on surfaces free of dust, efflorescence, oils and fats. GRIGONOVA RINZAFFO should not be applied to gypsum, inconsistent and brittle surfaces. The application must be made after the saturation of the substrate with low pressure water. The application of this product

is designed for those applications which require a subsequent use of a masonry recovery and dehumidification cycle.

Specifications

The surfaces to be plastered should be clean and stable; before being processed, the surfaces must be thoroughly washed with low pressure water, several hours before application. Each inconsistent part must be removed or consolidated; the surfaces may be processed either manually or by lung-screw plastering machine with the GRIGONOVA RINZAFFO from Fornaci Calce Grigolin, dry premix based on selected inerts, a mixture of special hydraulic binders, highly resistant to salts and special additives to improve workability and grip, at a rate of 1.5 kg/m² per mm of thickness. The product should cover approximately 2/3 of the surface and in the case of strongly ammalorated masonry, in the presence of salts or following any antisaline treatment, the application will be carried out uniformly and covering with a thickness of 4-5 mm. In both cases (2/3 or complete), the area must not be subsequently smoothed. Where the system specifically states the use of GRIGONOVA STABILSALE, the subsequent application of GRIGONOVA RINZAFFO should follow within the next 12 hours, but not until the surface has absorbed the amount of excess antisaline product, resulting a moist but not wet surface.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1500 kg/m ³ |
| Maximum diameter | 3 mm |
| Pot life | 2 h |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 20% |
| Consumption (may vary in accordance to covering degree) | 6-9 kg/m ² |
| Mechanical resistance to flexion at 28 days | 3 N/mm ² |
| Mechanical resistance to compression at 28 days | 8 N/mm ² |
| Sulphate resistance | Samples intact after 1 month of imersion in a sulphatic environment |
| Water vapor permeability μ | 10 |
| Adhesion to brick | 0,7 N/mm ² |
| Fracture type | A |
| Water absorbtion | W1 |
| Fire resistance | třída A1 |
| Thermal conductivity λ | 0,90 W/mk (tabulated value) |

Disclaimers

Do not mix GRIGONOVA RINZAFFO with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using GRIGONOVA RINZAFFO when temperatures are below +5°C or above +30°C. Apply on areas previously saturated with water at low pressure. Follow carefully the guidelines as reported in technical Specifications, and in particular with respect to:

- 1) application method (thickness, degree of coverage, timing);
- 2) mixing method (% of water and mixing time).

For special applications, please refer to our technical service.



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GRIGONOVA POROSO

Fiber-reinforced plaster with antisaline effect, based on sulphate-resistant binders

(base plaster in conformity with WTA prerequisites)



Product description

Fiber reinforced dry premix, based on a mixture of carefully selected special inerts, a mixture of hydraulic binders, highly resistant to salt and additives aimed at improving workability and grip. The specific formula (base plaster in conformity with WTA prerequisites) allows for the obtaining of a porous structure designed to facilitate saline crystallization of and enhance residual evaporation.

Supply and Storage

GRIGONOVA POROSO is supplied in 25 kg. bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

Follow carefully the guidelines as reported in technical Specifications. For the preparation of the dough, in the case of mechanical application, use the plastering machine fitted with a standard mixer but with the help of "turbo", "rotorquill" or similar mixer; the use of a D8/1.5 lung type is imperative. For manual applications, the mixing should be done using about 4.5 liters of water per 25 kg sack, using a concrete mixer or a rotary hammer drill and should last for about 3 minutes to obtain a homogeneous mortar without lumps and of fluid consistency, which can provide good stability to the wall. For manual application, the material must be applied within 15-20 minutes after dough preparation, to ensure the antisaline effect. The special feature of the GRIGONOVA POROSO premix does not recommend the manual application of the product. The minimum application thickness is 10 mm.

Fields of use

GRIGONOVA POROSO is used as a plaster base, by hand or machine, for interior and exterior surfaces in brick, block, etc., in the GRIGONOVA cycle. It is used in the rehabilitation of masonry attacked by salts or in the presence of outcropping moisture, by creating a porous and water vapor permeable structure, able to retain crystallized salts without creating tensions inside the masonry or inside the successive layers or leading to the formation of surface efflorescence. It is applied to homogenize the areas that will then be plastered with our pwn GRIGONOVA RISANA.

The application must be performed on surfaces free of dust, efflorescence, oils, fats and should be previously prepared with GRIGONOVA RINZAFFO. The product should not be applied if the surface is inconsistent or brittle, in that regard it is recommended that the application occurs when the roughcast layer is hardened but does not exceed a curing time superior to 48 hours.

Specifications

The area to be plastered should have been previously treated with GRIGONOVA RINZAFFO, which should be hardened but should not exceed a curing time superior to 48 hours; the surface thus prepared may be coated may be processed either manually or by lung-screw plastering machine with the GRIGONOVA POROSO product from Fornaci Calce Grigolin, fiber-reinforced dry premix based on selected inerts, a mixture of specific hydraulic binders with high resistance to salt and special additives to improve workability and grip, at a rate of 11-12 kg/m² per cm of thickness.

The application thickness of the GRIGONOVA POROSO plaster will be evaluated from time to time depending on the salt concentration in the wall, but should never be less than 10 mm. The surface will be evened off with the aluminum level. To ensure a perfect grip of the next layer, it is recommended to operate an incision, a few mm. deep, on the surface while in hardening phase, with a metal comb.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1450 kg/m ³ |
| Maximum diameter | 3 mm |
| Pot life | 15-20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 19% |
| Consumption | 11-12 kg/m ² per cm |
| Mechanical resistance to flexion at 28 days | 2 N/mm ² |
| Mechanical resistance to compression at 28 days | 3 N/mm ² |
| Air content in fresh mortar | > 30% |
| Porosity | > 45% |
| Capillary absorption coefficient W24 | > 1 kg/m ² |
| Paropropustnost μ | 6 |
| Water vapor permeability λ | 0,40 W/mk (tabulated value) |
| Application thickness | from 10 to 20 mm |
| Sulphate resistance | Samples intact after 1 month of immersion in a sulphatic environment |
| Adhesion to brick | 0,5 N/mm ² |
| Fracture type | A |
| Fire resistance | A1 class |

Disclaimers

Do not mix GRIGONOVA POROSO with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using GRIGONOVA POROSO when temperatures are below +5°C or above +30°C.

For special applications, please refer to our technical service.

Follow carefully the guidelines as reported in technical Specifications, and in particular with respect to:

- 1) application method (thickness, timing);
- 2) mixing method (% of water and mixing time).



The reported data refers to Q.C. tests taken in standard environmental conditions. Practical applications in the construction yard may detect significantly changed data, depending on operating conditions, so the information on the product card are only indicative because the user must always check its suitability for the intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice. Because of chemical and physical variables that affect operation principle (saline saturation of macropores), it is not possible to predict the durability of the curing effect.

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GRIGONOVA RISANA

**Fiber-reinforced, breathable,
water-repellent plaster, based on
sulphate-resistant binders**

(rehabilitation plaster in conformity with WTA
prerequisites)



Product description

Fiber-reinforced, dry premix, based on a special blend of carefully selected inerts, a mixture of hydraulic binders, highly resistant to salt, water-repellent agent and additives aimed at improving water repellence, workability and grip. The specific formulation (REHABILITATION PLASTER COMPLIANT WITH WTA REQUIREMENTS) allows for the obtaining of a layer with high diffusion capacity of the water vapor and a high dehumidifying capacity, while presenting a good protection function against rain water for the layers below.

Supply and Storage

GRIGONOVA RISANA is supplied in 25 kg. bags on stretch pallets. Store in a cool, dry and non ventilated place. Use before the expiry date stamped on the bag.

Surface Preparation and Application

Follow carefully the guidelines as reported in technical Specifications. For the preparation of the dough, in the case of mechanical application, use the plastering machine fitted with a standard mixer but with the help of "turbo", "rotorquill" or similar mixer; the use of a D8/1.5 lung type is imperative.

For manual applications, the mixing should be done using about 4.5 liters of water per 25 kg sack, using a concrete mixer or a rotary hammer drill and should last for about 3 minutes to obtain a homogeneous mortar without lumps and of fluid consistency, which can provide good stability to the wall.

For manual application, the material must be applied within 15-20 minutes after dough preparation, to ensure the dehumidifying effect. The special feature of the GRIGONOVA RISANA premix does not recommend the manual application of the product.

Fields of use

GRIGONOVA RISANA is used as a rehabilitation plaster, by hand (in the GRIGONOVA RISANA Manual version) or machine (in the GRIGONOVA RISANA Mechanical version), for interior and exterior surfaces in brick, block, etc., in the GRIGONOVA cycle.

It is used in masonry dehumidification affected by moisture or salt attack because it creates a layer with high permeability to water vapor which can facilitate the evaporation of water resulting from the layer of GRIGONOVA Poroso while ensuring adequate protection from rain-water in order to avoid any risolubilisation of salts previously condensed within

the same layer. Represents the ideal bottom layer for the subsequent finishing with GRIGONOVA TONACHINO. The application should be performed on surfaces free of dust, efflorescence, oil, fat and previously plastered with GRIGONOVA POROSO. The product should be applied only if the layer of antislime plaster presents a degree of maturity of at least 7 days.

This waiting time is meant to allow the formation of a porous structure, aimed at containing the salts, and is the basic step for the long life-cycle recovery. Other antislime treatments (for example, based on products in solution) will be assessed prior to the application and exclusively with the assistance of our technical service.

Specifications

The area to be plastered must be treated in advance with GRIGONOVA POROSO, which must present a curing period over 7 days; the surface thus prepared may be coated by hand or by lung-screw plastering machine with the GRIGONOVA RISANA product available in Manual and Mechanical versions from Fornaci Calce Grigolin. The GRIGONOVA RISANA plaster is a fiber-reinforced dry premix, based on selected inerts, a mixture of specific hydraulic binders with high resistance to salt, water-repellent agent and special additives aimed at improving workability and grip, at a rate of 12-13 kg/m² per cm of thickness. Must be applied with a minimum thickness of 1.5 cm. The surface will be evened off with the aluminum level. The subsequent finish will be made with the fiber-reinforced plaster with high water repellence GRIGONOVA TONACHINO.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1450 kg/m ³ |
| Maximum diameter | 3 mm |
| Pot life | 15-20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 19% |
| Consumption | 11-12 kg/m ² per cm |
| Mechanical resistance to flexion at 28 days | 1,5 N/mm ² |
| Mechanical resistance to compression at 28 days | 3 N/mm ² |
| Air content in fresh mortar | > 25% |
| Porosity | > 40% |
| Capillary absorption coefficient W24 | > 0,3 kg/m ² |
| Water vapor permeability μ | 7 |
| Thermal conductivity λ | 0,40 W/mk (tabulated value) |
| Application thickness | 15 mm |
| Sulphate resistance | Samples intact after 1 month of immersion in a sulphatic environment |
| Adhesion to brick | > 0,5 N/mm ² |
| Fracture type | A |
| Fire resistance | A1 class |

Disclaimers

Do not mix GRIGONOVA RISANA with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using GRIGONOVA RISANA when temperatures are below +5°C or above +30°C.

For special applications, please consult our technical service. Follow carefully the guidelines as reported in technical Specifications, and in particular with respect to:

- 1) application method (thickness, timing);
- 2) mixing method (% of water and mixing time).



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classic

GRIGONOVA TONACHINO

Breathable fiber-reinforced smooth
plaster finish, light color, high wa-
ter repellence



Product description

Fiber-reinforced, smooth plaster finish, lightly colored, based on a special blend of carefully selected inerts, a mixture of hydraulic and aerial binders, polypropylene fibers, special additives aimed at improving workability and grip and which ensure a high water repellence of the finished surface. The specific formulation allows for the obtaining of a layer with high diffusion capacity of the water vapor, while presenting a good protection function against rain water for the layers below.

Supply and Storage

GRIGONOVA TONACHINO is supplied in 25 kg. bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The surfaces must be linear, uniform and humid. Remove any dust before application by "scratching" or scraping. For the application, proceed as follows:

Verify that the surface is wet, moisten if necessary; prepare the dough by adding about 26 lt of water x 100 kg of dry product, stir well, avoiding in any case an excessive incorporation of air. The dough thus prepared should be left to stand for 15 minutes.

Apply with metallic spatula into two or more layers crossing direction of application; the last coat should only be applied after the underlying layer is white and hardened (6-8 hours in correlation to atmospheric conditions and absorption of the base). The material thus applied may be finished with sponge float, dampened if necessary, to obtain the so-called "smooth finish", until the surface presents no seams or overlappings.

Fields of use

GRIGONOVA TONACHINO is used as plaster finish for interior and exterior in the GRIGONOVA cycle. The application on GRIGONOVA RISANA should be done when plaster is dry but not yet fully cured (1 week for each cm of thickness). The specific formula allows for the obtaining of a smoothly finished surface, with high water repellence and diffusion capacity of the water vapor; through its microporous structure, it is able to enhance the functionality of the whole

dehumidifying package, optimally preserving it over time. The use in combination with special additives and synthetic fibers improves considerably the elastic module of the product.

It may also be used as a highly protective finish of external surfaces plastered with normal background plaster.

In the case of use in rehabilitation cycles, it is recommended that the painting is done with products with high breathability and water repellence (siloxane paintings); never use, not even for applications on standard plaster, paintings with high tension (quartz coatings or paints).

Specifications

The plasters to be finished must have surfaces which are perfectly flat and homogeneous. The surfaces thus prepared may be finished with the highly protective fiber-reinforced, waterproof plaster finish GRIGONOVA TONACHINO from Fornaci Calce Grigolin, dry premix based on selected inerts, a mixture of aerial and hydraulic binders, polypropylene synthetic fibers and special additives to improve workability and grip.

The application will be performed by hand with a metallic spatula, applying the material in two layers, crossing the direction of application, up to a thickness not exceeding 3 mm, at a rate of 2-3 kg/m². The finishing will be done with a sponge float. The application of GRIGONOVA RISANA should occur within the next 48-72 hours.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1250 kg/m ³ |
| Maximum diameter | 0,6 mm |
| Pot life | 2 h |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 26% |
| Consumption | 1.2 kg/m ² per mm of thickness |
| Mechanical resistance to flexion at 28 days | 3,0 N/mm ² |
| Mechanical resistance to compression at 28 days | 8,0 N/mm ² |
| Color | White |
| Water absorption | W1 |
| Water vapor permeability μ | 10 |
| Adhesion to brick | 0,7 N/mm ² |
| Fracture type | A |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,48 W/mk (tabulated value) |

Disclaimers

Do not mix GRIGONOVA TONACHINO with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using GRIGONOVA TONACHINO when temperatures are below +5°C or above +30°C.

In case of large surfaces, it is recommended to apply the finish in two layers, taking care to apply the second one on a perfectly cured surface.

Follow carefully the guidelines as reported in technical Specifications, and in particular with respect to:

- 1) application method (thickness, timing);
- 2) mixing method (% of water and mixing time).

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



grigonova
classic

STABILSALE

High-penetration, pigmented anti-saline solution, based on siloxanic oligomers



Product description

Anti-saline product, pigmented, ready-to-use, based on siloxanic oligomers in high-penetration watery solution, completely solvent-free.

Supply and Storage

GRIGONOVA STABILSALE is supplied in 20 kg. canisters. Ready to use. Store in a cool, indoor place, protected from frost (min. temp. +5°C). Keep packaging intact. Use within 2 months from the date stamped on the package. As opposed to similar solvent-based products, it is non-flammable.

Surface Preparation and Application

Surfaces must be dry and clean, GRIGONOVA STABILSALE may be applied by spray, roller or brush. In subsequent layers, it is recommended to use the "fresh on fresh" technique. Subsequent layers of plaster must be applied strictly with the same methodology, but not until the surface has absorbed the excess amount of antisoline, thus rendering it moist but not wet.

Fields of use

The use of GRIGONOVA STABILSALE should be assessed on a case by case basis and in consultation with our technical service; in particular, the use of GRIGONOVA cycle should be assessed according to the concentration of salts in the masonry, and the state in which it presents itself. It is used in injections into recurring capillary in brick, stone and cement walls. In the colorless version, available upon request, it can be used in surface treat-

ment of brick, concrete, stone, etc. in order to prevent saline efflorescence or as water repellent in the production of mortars and concretes. It may be used to improve the water repellence of fine extra-white Mineral Mural Coatings GR 100-200-300. The treated surface does not display any alteration in appearance and no reduction in breathability. The application is done without any solvent and in any case, low on VOC.

Specifications

On the surfaces to be treated, apply in two or more layers the high penetration, anti-saline solution, pigmented or not, GRIGONOVA STABILSALE from Fornaci Calce Grigolin, based on siloxanic oligomers in watery solution with a consumption of about 0.5 kg/m² in 2 layers (consumption may differ depending on background absorption). It is suitable for use on surfaces such as brick, stone, concrete, mortar, plaster and finishing products.

Technical data according to the UNI EN 998-1 Standard

| | |
|-----------------|--|
| Specific weight | 1000 kg/m ³ |
| Thinner | water (for equipment cleaning) |
| Thinning ratio | ready-to-use |
| Appearance | blue pigment (colorless, upon request) |
| Consumption | 0,5 kg/m ² in two layers |
| Dry residue | 5% |

Disclaimers

Do not mix GRIGONOVA STABILSALE with other ingredients and use only as is supplied, without additional dilutions. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using GRIGONOVA STABILSALE when temperatures are below +5°C or above +30°C. In the application phase, it is recommended to avoid contact with glass surfaces as it could change their transparency.

The product reaches the maximum water repellence after one week; avoid exposing the treated surfaces to direct rain during this period.



grigonova
isi

ISI RINZAFFO

Curing roughcast based on
sulphate-resistant binders



Product description

GRIGONOVA Isi RINZAFFO is a dry premix based on a mixture of carefully selected special inerts, a mixture of hydraulic binders, highly resistant to salt and additives aimed at improving workability and grip.

Supply and Storage

GRIGONOVA Isi RINZAFFO is supplied in special 25 kg. bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

Follow carefully the guidelines as reported in technical Specifications. For the preparation of the dough, in case of manual applications, mix about 19 liters of water for each 100 kg. of dry product (approx. 4.5 lt./25 kg.) in a concrete mixer or with a rotary hammer drill, to obtain a homogeneous mortar without lumps and of semi-fluid consistency (about 3 minutes), avoiding in any case an excessive incorporation of air; in case of mechanical application, use the plastering machine fitted with a standard mixer but with the help of "turbo", "rotorquill" or similar mixer. Do not mix manually. Cover the entire surface with a minimum thickness of 5 mm. Do not smoothen.

Fields of use

GRIGONOVA Isi RINZAFFO may be applied either manually or by machine, onto interior and exterior surfaces like brick, blocks, stone, tuff, etc. subject to rising capillary moisture and in the presence of salts. It should not be applied to gypsum, inconsistent and brittle surfaces. After mixing with water to achieve a dough of a semi-fluid consistency, apply with a minimum thickness of 5 mm., as grip layer for the GRIGONOVA Isi INTONACO. GRIGO-

NOVA Isi RINZAFFO ensures excellent grip of the GRIGONOVA Isi system to the substrate and, at the same time, provides excellent breathability to the moisture contained in the masonry.

Specifications

The supports to be plastered should be clean and stable, free of dust, efflorescence, oils, fats and salt formations; any inconsistent part must be removed or consolidated. Clear away all material removed from the base of the masonry. A few hours before applying the product, saturate the substrate with water at low pressure. The surfaces thus prepared may be rough-casted, by hand or lung-screw plastering machine, with GRIGONOVA Isi RINZAFFO from Fornaci Calce Grigolin, restauration dry premix based on a mixture of carefully selected special inerts, a mixture of hydraulic binders, highly resistant to salt, additives aimed at improving workability and grip. The product should cover the entire surface with a minimum thickness of 5 mm for a consumption of approx. 1.8/2 kg/m² per mm of thickness. After at least 48 hours, or at most within one week, you may proceed with the application of GRIGONOVA Isi INTONACO.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1.500 kg/m ³ |
| Maximum inert diameter | 3 mm |
| Pot life | 2 h |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 19% |
| Consumption | 9-10 kg/m ² per 5 mm thickness |
| Mechanical resistance to flexion at 28 days | 3 N/mm ² |
| Mechanical resistance to compression at 28 days | 8 N/mm ² |
| Sulphate resistance | Samples intact after 1 month of imersion in a sulphatic environment |
| Adhesion to brick | 0,7 N/mm ² |
| Fracture type | A |
| Water absorbtion | W1 |
| Water vapor permeability μ | 11 |
| Thermal conductivity λ | 0,90 W/mk (tabulated value) |
| Fire resistance | A1 class |

Disclaimers

Do not mix GRIGONOVA Isi RINZAFFO with other substances. Do not apply to gypsum, inconsistent and brittle surfaces. We do not recommend using GRIGONOVA Isi RINZAFFO when temperatures are below +5°C or above +30°C. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Apply on areas previously saturated with water at low pressure. Follow carefully the guidelines as reported in technical Specifications, and in particular with respect to:

- 1) application method (thickness, degree of coverage, timing);
- 2) mixing method (% of water and mixing time).

For special applications, please refer to our technical service.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



ISI INTONACO

One coat dehumidifying fiber-reinforced plaster, based on sulphate-resistant binders



Product description

Fiber-reinforced, dry premix, based on a special blend of carefully selected inerts, a mixture of hydraulic binders, highly resistant to salt and additives aimed at improving workability and grip. The specific formulation allows for the obtaining of a combined product: a porous structure designed to facilitate the salt crystallization, a high capacity of water vapor diffusion which can enhance the evaporation function of the moisture, a strong dehumidifying capacity and an excellent protection from rain water.

Supply and Storage

GRIGONOVA Isi INTONACO is supplied in special 25 kg. bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

Follow carefully the guidelines as reported in technical Specifications. For the preparation of the dough, in case of manual applications, mix about 18 liters of water for each 100 kg. of dry product (approx. 4.5 lt./25 kg.) in a concrete mixer or with a rotary hammer drill, to obtain a homogeneous mortar without lumps and of plastic consistency (about 3 minutes), capable to provide sufficient grip on the walls. In case of mechanical application, use the plastering machine fitted with a standard mixer but with the help of "turbo", "rotorquill" or similar mixer. The use of a D8/1.5 lung type is imperative. Do not mix manually. Subsequently, apply GRIGONOVA Isi INTONACO by hand or plastering machine. For manual application, after dough preparation, the material must be used within the next 15-20 minutes in order to ensure proper functioning. GRIGONOVA Isi INTONACO must be applied with a thickness of 2 cm per layer. It is recommended that the minimum thickness is not inferior to 2 cm. The application thickness will be assessed, however, depending on the type and status of surface in question. It is recommended to even off the surface without exerting excessive pressure.

Fields of use

GRIGONOVA Isi INTONACO may be applied both by hand and with a plastering machine on interior and exterior walls like brick, block, stone, travertine, etc. It is used in the rehabilitation of masonry attacked by salts or in the presence of outcropping moisture. The application must be made on surfaces free of dust, efflorescence, oils, fats and previously treated with GRIGONOVA Isi RINZAFFO.

Specifications

Cover the surface completely with GRIGONOVA Isi RINZAFFO, the latter should present a curing time over 48 hours. We recommend, however, the application of GRIGONOVA Isi INTONACO within 7 days thereafter, after assessing the degree of absorption of the roughcast layer. The surfaces thus prepared may be plastered either by hand or by lung-screw plastering machine with GRIGONOVA Isi INTONACO plaster from Fornaci Calce Grigolin, fiber-reinforced dry premix based on selected inerts, a mixture of hydraulic and specific binders with high resistance to salt and special additives aimed at improving workability and grip. The product should be applied with a maximum thickness of 2 cm per layer, for a consumption of approx. 11-12 kg/m² per cm of thickness, and the surface will be evened off with the aluminum level.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1.450 kg/m ³ |
| Maximum inert diameter | 3 mm |
| Pot life | 2 h |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 18% |
| Consumption | 11-12 kg/m ² per 5 mm thickness |
| Mechanical resistance to flexion at 28 days | 1,2 N/mm ² |
| Mechanical resistance to compression at 28 days | 2,5 N/mm ² |
| Sulphate resistance | Samples intact after 1 month of immersion in a sulphatic environment |
| Air content in fresh mortar | > 25% |
| Porosity | > 40% |
| Capillary absorption coefficient W24 | > 0,3 kg/m ² |
| Water vapor permeability μ | 7 |
| Adhesion to brick | 0,5 N/mm ² |
| Fracture type | A |
| Thermal conductivity λ | 0,40 W/mk (tabulated value) |
| Application thickness | ≥ 2 cm |
| Fire resistance | A1 class |

Disclaimers

GRIGONOVA Isi INTONACO complies with WTA provisions. Nevertheless, we do not recommend application in cases of high contamination with salts, for which case is recommended the use of the GRIGONOVA CLASSIC system. In any case, contact our technical service.

Do not mix GRIGONOVA Isi INTONACO with other substances. Do not apply to gypsum, inconsistent and brittle surfaces. We do not recommend using GRIGONOVA Isi INTONACO when temperatures are below +5°C or above +30°C. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Apply on areas previously saturated with water at low pressure. Follow carefully the guidelines as reported in technical Specifications, and in particular with respect to:

- 1) application method (thickness, timing);
- 2) mixing method (% of water and mixing time).





adhesives and glues

adhesives and glues

| | |
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| | |
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Include all those products that provide for coupling between the substrate (mortar, brick, plaster or other) and the material to be laid. In order to choose the product to be used, consider the background, the type of material to be bonded, the thickness to be achieved, the characteristics and the intended use of the space.

The high quality range of Grigolin Adhesives and Glues allows better workability of the product and a greater adherence to the surface.



adhesives and glues glues

AG 01 PLUS AG 02 PLUS

Powder adhesive cement-based for
ceramic tiles



Product description

Dry premixed adhesive based on selected inerts, white or gray hydraulic binder and special additives to improve workability and grip.

Supply and Storage

AG01-AG02 Plus is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

The areas of installation must be free from dust and dirt. Any traces of oils, fats, waxes, etc. must first be removed, as well as any inconsistent or brittle parts. Prepare the dough by adding about 6-7 liters of clean water to each 25 kg bag of AG01-AG02 Plus and mix by hand or with mechanical stirrer to obtain a homogeneous mixture free of lumps. The dough thus obtained has a pot life of about 8 hours. After being allowed to stand for 10 minutes, stir again and apply normally with the toothed spatula in the appropriate thickness, depending on the type of tile to lay. It is not necessary to wet the tiles before laying them. The tiles are applied with a slight movement, applying pressure, tapping thoroughly so that all surfaces of the tile come in perfect contact with the adhesive. Any rearranging of the tiles must be made within 45 minutes after laying. In the case of applying insufficient of glue, do not soak the surface but add more with the toothed spatula. For bonding the tiles outdoors and for levigated pavements, the bonding must be performed with a double coating system. After fastening the items with AG01-AG02 Plus, wait 1 day before sealing the joints.

Fields of use

AG01-AG02 Plus is a premixed adhesive used to glue ceramic tiles on floors and walls, on any type of substrate and cement plaster normally used in construction. The surface should be level and consistent, clean, dry and should not be overly absorbent. Do not use for laying directly on substrates in gypsum or plasterboard walls, concrete surfaces or cellular foam and heated floors.

Specifications

The ceramic tiles and decorations should be glued with the gray-white powder adhesive for interior and exterior AG01-AG02 Plus from Fornaci Calce Grigolin, based on gray-white hydraulic binder, selected sands and special additives aimed at improving workability and grip, at a rate of 3-4 kg/m².

The areas of installation should be clean and stable, use a toothed spatula for the setting, taking care to respect or create deformation joints. For bonding the tiles outdoors and for levigated pavements, the bonding must be performed with a double coating system.

Technical data according to the UNI EN 12004 Standard

| | |
|--|---|
| Classification according to EN 12004 | C1 |
| Powder specific weight | 1.350 kg/m ³ determined in free fall |
| Mixture specific weight | 1650 kg/m ³ |
| Density of cured adhesive | 1500 kg/m ³ |
| Particle size | < 0,8 mm |
| Available colors | AG 01 Plus grey AG 02 Plus white |
| Flexibility | NO |
| Water in the mix | approx. 26% AG 01, approx. 28% AG 02 |
| Consumption | 3-4 kg/m ² |
| pH | > 12 |
| Time for effect | 14 days |
| Time to wait before sealing joints | approx. 24 hrs. |
| Pot life after mixing | approx. 8 hrs. |
| Open time | approx. 20 min. |
| Registration time | approx. 45 min. |
| Time until it may be walked onto | 24 hrs. |
| Mechanical resistance to flexion after 28 days | > 5 N/mm ² |
| Mechanical resistance to compression after 28 days | > 12 N/mm ² |
| ADHERENCE TO SUBSTRATE ACCORDING TO UNI EN 12004/1348 | |
| Adherence to initial traction | > 0,5 N/mm ² |
| Adherence to traction after water immersion | > 0,5 N/mm ² |
| Adherence to traction after heat action | > 0,5 N/mm ² |
| Adherence to traction after cycles of freezing/melting | > 0,5 N/mm ² |

Disclaimers

Do not mix AG01-AG02 Plus with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using AG01-AG02 Plus when temperatures are below +5°C or above +30°C.



adhesives and glues glues

AG 03 PROF AG 04 PROF

Powder superadhesive, cement-based, with enhanced adherence



Product description

Dry premixed adhesive based on selected inerts, white or gray hydraulic binder and special additives to improve workability and grip.

Supply and Storage

AG03-AG04 Prof is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

The areas of installation must be free from dust and dirt. Any traces of oils, fats, waxes, etc. must first be removed, as well as any inconsistent or brittle parts. Prepare the dough by adding about 6-7 liters of clean water to each 25 kg bag of AG03-AG04 Prof and mix by hand or with mechanical stirrer to obtain a homogeneous mixture free of lumps. The dough thus obtained has a pot life of about 8 hours. After being allowed to stand for 10 minutes, stir again and apply normally with the toothed spatula in the appropriate thickness, depending on the type of tile to lay. It is not necessary to wet the tiles before laying them.

The tiles are applied with a slight movement, applying pressure, tapping thoroughly so that all surfaces of the tile come in perfect contact with the adhesive. Any rearranging of the tiles must be made within 60 minutes after laying. In the case of applying insufficient of glue, do not soak the surface but add more with the toothed spatula. For bonding the tiles outdoors and for levigated pavements, the bonding must be performed with a double coating system.

After fastening the items with AG03-AG04 Prof, wait 1 day before sealing the joints.

Fields of use

AG03-AG04 Prof is a premixed adhesive used to glue ceramic tiles, even those with low absorbance, on floors and walls, on any type of substrate and cement plaster normally used in construction. The surface should be level and consistent, clean, dry and should not be overly absorbent. Do not use for laying directly on substrates in gypsum or plasterboard walls, concrete surfaces or cellular foam and heated floors.

Specifications

The ceramic tiles and decorations should be glued with the gray-white powder super-adhesive for interior and exterior AG03-AG04 Prof from Fornaci Calce Grigolin, based on gray-white cement, selected sands, resins and special additives aimed at improving workability and grip, at a rate of 3-4 kg/m².

The areas of installation should be clean and stable, use a toothed spatula for the setting, taking care to respect or create deformation joints. For bonding the tiles outdoors and for levigated pavements, the bonding must be performed with a double coating system.

Technical data according to the UNI EN 12004 Standard

| | |
|--|--|
| Classification according to EN 12004 | C2TE |
| Powder specific weight | 1350 kg/m ³ determined in free fall |
| Mixture specific weight | 1650 kg/m ³ |
| Density of cured adhesive | 1500 kg/m ³ |
| Particle size | < 0,8 mm |
| Available colors | AG 03 Prof grey AG 04 Prof white |
| Flexibility | NO |
| Water in the mix | approx. 26% AG 03, approx. 28% AG 04 |
| Consumption | 3-4 kg/m ² |
| pH | > 12 |
| Time for effect | 14 days |
| Time to wait before sealing joints | approx. 24 hrs. |
| Pot life after mixing | approx. 8 hrs. |
| Open time | approx. 30 min. |
| Registration time | approx. 60 min. |
| Time until it may be walked onto | 24-36 hrs. |
| Mechanical resistance to flexion after 28 days | > 5 N/mm ² |
| Mechanical resistance to compression after 28 days | > 12 N/mm ² |
| ADHERENCE TO SUBSTRATE ACCORDING TO UNI EN 12004/1348 | |
| Adherence to initial traction | > 1 N/mm ² |
| Adherence to traction after water immersion | > 1 N/mm ² |
| Adherence to traction after heat action | > 1 N/mm ² |
| Adherence to traction after cycles of freezing/melting | > 1 N/mm ² |

Disclaimers

Do not mix AG03-AG04 Prof with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using AG03-AG04 Prof when temperatures are below +5°C or above +30°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



adhesives and glues glues

AG 05 FLEX AG 06 FLEX

Flexible adhesive, powder, based on cement, highly adhesive



Product description

Dry premixed adhesive based on selected inerts, white or gray hydraulic binder and special additives which give the product high adhesive power and elasticity.

Supply and Storage

AG05-AG06 Flex is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

The areas of installation must be free from dust and dirt. Any traces of oils, fats, waxes, etc. must first be removed, as well as any inconsistent or brittle parts. Prepare the dough by adding about 6-7 liters of clean water to each 25 kg bag of AG05-AG06 Flex and mix by hand or with mechanical stirrer to obtain a homogeneous mixture free of lumps. The dough thus obtained has a pot life of about 8 hours. After being allowed to stand for 10 minutes, stir again and apply normally with the toothed spatula in the appropriate thickness, depending on the type of tile to lay. It is not necessary to wet the tiles before laying them. The tiles are applied with a slight movement, applying pressure, tapping thoroughly so that all surfaces of the tile come in perfect contact with the adhesive. Any rearranging of the tiles must be made within 60 minutes after laying. In the case of applying insufficient of glue, do not soak the surface but add more with the toothed spatula. For bonding the tiles outdoors and for levigated pavements, the bonding must be performed with a double coating system. After fastening the items with AG05-AG06 Flex, wait 1 day before sealing the joints.

Fields of use

AG05-AG06 Flex is a premixed adhesive used to glue ceramic tiles on floors and walls, on any type of substrate and cement plaster normally used in construction, even if these are subjected to dimensional variations (heated floors, cured concrete). It may be also used for laying directly on top of old ceramic pavements. The surface should be level and consistent, clean, dry and should not be overly absorbent. Do not use for laying directly on substrates in gypsum or plasterboard walls.

Specifications

The ceramic tiles and decorations should be glued with the flexible gray-white powder adhesive for interior and exterior AG05-AG06 Flex from Fornaci Calce Grigolin, based on gray-white hydraulic binder, selected sands, resins and special additives aimed at improving workability and grip, at a rate of 3-4 kg/m². The areas of installation should be clean and stable, use a toothed spatula for the setting, taking care to respect or create deformation joints. For bonding the tiles outdoors and for levigated pavements, the bonding must be performed with a double coating system.

Technical data according to the UNI EN 12004 Standard

| | |
|--|--|
| Classification according to EN 12004 | C2TE |
| Powder specific weight | 1350 kg/m ³ determined in free fall |
| Mixture specific weight | 1650 kg/m ³ |
| Density of cured adhesive | 1500 kg/m ³ |
| Particle size | < 0,8 mm |
| Available colors | AG 05 Flex grey AG 06 Flex white |
| Flexibility | YES |
| Water in the mix | approx. 26% AG 05, approx. 28% AG 06 |
| Teoretická spotřeba | 3-4 kg/m ² |
| pH | > 12 |
| Time for effect | 14 days |
| Time to wait before sealing joints | approx. 24 hrs. |
| Pot life after mixing | approx. 8 hrs. |
| Open time | approx. 30 min. |
| Registration time | approx. 60 min. |
| Time until it may be walked onto | 24-36 hrs. |
| Mechanical resistance to flexion after 28 days | > 5 N/mm ² |
| Mechanical resistance to compression after 28 days | > 11 N/mm ² |
| ADHERENCE TO SUBSTRATE ACCORDING TO UNI EN 12004/1348 | |
| Adherence to initial traction | > 1 N/mm ² |
| Adherence to traction after water immersion | > 1 N/mm ² |
| Adherence to traction after heat action | > 1 N/mm ² |
| Adherence to traction after cycles of freezing/melting | > 1 N/mm ² |

Disclaimers

Do not mix AG05-AG06 Flex with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using AG05-AG06 Flex when temperatures are below +5°C or above +30°C.



adhesives and glues glues

GRIGOKOLL

Flexible cementous adhesive with high adhesive power for ceramic tiles



Product description

GRIGOKOLL is a dry premixed adhesive based on selected inerts, white or gray hydraulic binder and special additives which give the product high adhesive power and elasticity.

Supply and Storage

GRIGOKOLL is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

The areas of installation must be free from dust and dirt. Any traces of oils, fats, waxes, etc. must first be removed, as well as any inconsistent or brittle parts. Prepare the dough by adding about 5-5.5 liters of clean water to each 20 kg bag of GRIGOKOLL (26% for GRIGOKOLL Grey; 27% for GRIGOKOLL White) and mix by hand or with mechanical stirrer to obtain a homogeneous mixture free of lumps. The dough thus obtained has a pot life of about 8 hours. After being allowed to stand for 10 minutes, stir again and apply normally with the toothed spatula in the appropriate thickness, depending on the type of tile to lay. It is not necessary to wet the tiles before laying them. The tiles are applied with a slight movement, applying pressure, tapping thoroughly so that all surfaces of the tile come in perfect contact with the adhesive. Any rearranging of the tiles must be made within 60 minutes after laying. In the case of applying insufficient of glue, do not soak the surface but add more with the toothed spatula. For bonding the tiles outdoors and for levigated pavements, the bonding must be performed with a double coating system. After fastening the items, wait 1 day before sealing the joints.

Fields of use

GRIGOKOLL is a premixed adhesive used to glue ceramic tiles of any kind, including porcelain stoneware, on floors and walls, on any type of substrate and cement plaster normally used in construction, even if these are subjected to dimensional variations (heated floors, cured concrete). It may be also used for laying directly on top of old ceramic pavements. The surface should be level and consistent, clean, dry and should not be overly absorbent. Do not use for laying directly on substrates in gypsum or plasterboard walls.

Specifications

The ceramic tiles and decorations should be glued with the flexible gray-white powder adhesive for interior and exterior GRIGOKOLL from Fornaci Calce Grigolin, based on gray-white hydraulic binder, selected sands, resins and special additives aimed at improving workability and grip, at a rate of 3-4 kg/m². The areas of installation should be clean and stable, use a toothed spatula for the setting, taking care to respect or create deformation joints. For bonding the tiles outdoors and for levigated pavements, the bonding must be performed with a double coating system.

Technical data according to the UNI EN 12004 Standard

| | |
|--|---|
| Classification according to EN 12004 | C2TE |
| Powder specific weight | 1.350 kg/m ³ determined in free fall |
| Mixture specific weight | 1650 kg/m ³ |
| Density of cured adhesive | 1500 kg/m ³ |
| Particle size | < 0,8 mm |
| Available colors | GRIGOKOLL grey GRIGOKOLL white |
| Flexibility | YES |
| Water in the mix | approx. 26% grey, approx. 28% white |
| Consumption | 3-4 kg/m ² |
| pH | > 12 |
| Pot life after mixing | approx. 8 hrs. |
| Open time | approx. 30 min. |
| Registration time | approx. 60 min. |
| Time until it may be walked onto | 24-36 hrs. |
| Mechanical resistance to flexion after 28 days | > 5 N/mm ² |
| Mechanical resistance to compression after 28 days | > 11 N/mm ² |
| Time for effect | 14 days |
| Time to wait before sealing joints | approx. 24 hrs. |
| ADHERENCE TO SUBSTRATE ACCORDING TO UNI EN 12004/1348 | |
| Adherence to initial traction | > 1 N/mm ² |
| Adherence to traction after water immersion | > 1 N/mm ² |
| Adherence to traction after heat action | > 1 N/mm ² |
| Adherence to traction after cycles of freezing/melting | > 1 N/mm ² |

Disclaimers

Do not mix GRIGOKOLL with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using GRIGOKOLL when temperatures are below +5°C or above +30°C.



adhesives and glues glues

AG 50

Light color powder adhesive for
cellular cement blocks



Product description

Dry premixed adhesive based on selected inerts, hydraulic binder and special additives aimed at improving workability and grip.

Supply and Storage

AG50 is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The areas of installation must be free from dust and dirt. Any traces of oils, fats, waxes, etc. must first be removed, as well as any inconsistent or brittle parts. Prepare the dough by adding about 6 liters of clean water to each 25 kg bag of AG50 and mix by hand or with mechanical stirrer to obtain a homogeneous mixture free of lumps. The dough thus obtained has a pot life of about 4 hours. After being allowed to stand for 5 minutes, stir again and apply normally with the toothed spatula in the appropriate thickness, both on the bottom and on the sides.

Proceed quickly to install the blocks on the fresh product, tapping them with a rubber hammer, taking care to eliminate the excess product that emerges from

between the blocks.

Fields of use

AG50 is a premixed adhesive used to glue and skim plaster expanded cellular cement blocks (like Gasbeton, Ytong and so on). The surface should be level and consistent, clean and dry.

Specifications

The cellular cement elements should be glued with the white powder adhesive AG50 from Fornaci Calce Grigolin, based on hydraulic binder, selected sands and special additives aimed at improving workability and grip, at a rate of 5-7 kg/m².

The elements to be installed should be level and consistent, clean and dry. For the installation, use a toothed spatula.

Technical data according to the UNI EN 12004 Standard

| | |
|---|---|
| Specific weight | 1.350 kg/m ³ determined in free fall |
| Available colors | white |
| Particle size | < 0,8 mm |
| Water in the mix | approx. 25% |
| Consumption as adhesive | 5-7 kg/m ² |
| Consumption as skim plaster | 3 kg/m ² |
| Pot life after mixing | approx. 4 ore |
| Open time | approx. 20 min. |
| Registration time | approx. 30 min. |
| Mechanical resistance to compression at 28 days | CS IV |
| Adhesion to brick | 0,8 N/mm ² |
| Fracture type | A |
| Water vapor permeability μ | 12 |
| Water absorption | W1 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.45 W/mK (tabulated value) |

Disclaimers

Do not mix AG50 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Protect the masonry from direct rain for at least 24 hours. We do not recommend using AG50 when temperatures are below +5°C or above +30°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



adhesives and glues glues

AGR 180

Ultra-fast curing mortar



Product description

Special mortar composed of high strength and fast curing hydraulic binders, selected aggregates and special additives to improve workability and quicken curing. The particular composition allows for the obtaining of a thixotropic consistency.

Supply and Storage

AGR180 is supplied in special bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stamped on the bag.

Surface Preparation and Application

The installation surface must be free from dust and dirt. Any traces of oils, fats, waxes, damaged parts or in the process of detachment must first be carefully removed. The surfaces must be soaked. In the presence of absorbant surfaces (such as bricks or mixed masonry), the humidification must be thorough. Prepare the dough by hand kneading small amounts of AGR180 at a time, with about 21% water, to obtain a uniform texture and free of lumps. Do not mix for more than 30 seconds. The dough thus obtained has a pot life of about 2-3 minutes at +20°C. Do not in any way attempt to restore workability by adding further water.

Fields of use

AGR180 is used to lay false frames and knobs in wood and metal, for attachment of cables and electrical boxes and pipes, bathroom fixtures, hinges, radiator anchors. It is also used for the

plastering and sealing of cement pipes, road manholes and for limiting small water leaks.

Specifications

For the installation of false frames and knobs in wood and metal, for attachment of cables and electrical boxes, pipes, bathroom fixtures, hinges, radiator anchors, cement pipes and road manholes, use the ultra-rapid curing mortar AGR180 from Fornaci Calce Grigolin, based on high-strength and fast-curing hydraulic binders, selected aggregates and special additives to improve workability and quicken curing. The particular composition allows for the obtaining of a thixotropic consistency. The areas of installation must be free of dust, traces of oil, disarming, saline efflorescence and soot and should be roughened and soaked to saturation; then, proceed with a trowel to the application of the fast-curing mortar.

Technical data

| | |
|--------------------------------------|--|
| Color | grey |
| Specific weight | 1200 kg/m ³ determined in free fall |
| Water in the mix | approx. 21% |
| Curing time | 5 minutes at + 20°C |
| Pot life after mixing | 2-3 minutes at + 20°C |
| Chloride | absent |
| Load time | after approx. 3 hours |
| Mechanical resistance to compression | after 3 hours > 4 N/mm ² |
| | after 24 hours > 12 N/mm ² |
| | after 7 days > 25 N/mm ² |
| | after 28 days > 30 N/mm ² |

Disclaimers

Do not mix AGR180 with other substances and, once the product has hardened, do not in any way attempt to restore workability by adding further water.



adhesives and glues glues

AG 10 RASOTHERM

Multi-purpose, light colored, powder skim plaster



Product description

Dry premixed skim plaster based on selected inerts, hydraulic binders and special additives to improve workability and elasticity.

Supply and Storage

AG10 Rasotherm is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The installation areas must be free of dust and dirt. Any traces of oils, fats, waxes, etc. must first be removed, as well as any brittle or inconsistent parts. Prepare the dough by adding about 6-7 liters of clean water for every 25 kg bag of AG10 Rasotherm, and mix by hand or with mechanical stirrer to obtain a homogeneous mixture free of lumps. The dough thus obtained has a pot life of about 4 hours. After being allowed to stand for 10 minutes, stir again and apply as usual with the metallic spatula in a thickness of 2-3 mm per coat (if the application is made on thermal insulation plaster, do not exceed that thickness). Any finishing of the product must be done during plastic phase, by moistening the surface and then working with the sponge float until obtaining a fine finish. Before the finishing (decorative coating from the arteMURI line), wait for min. 5 days.

Fields of use

AG10 Rasotherm is a premixed skim plaster used to level surfaces of plasters that have imperfections. AG10 Rasotherm is particularly suitable for applications on thermal insulation plaster (like Hydrotherm) prior to finish application; this intervention must be carried out on properly seasoned thermal insulation plasters (1 week per cm of thickness applied). It may be used for leveling cork or mineral wool insulation panels in the thermal insulation coating. Is used to embed reinforcement meshes.

Specifications

The plaster (thermal insulated or regular) should be leveled with the multi-purpose powder skim plaster AG10 Rasotherm of Fornaci Calce Grigolin, based on hydraulic binders, selected sands, resins and special additives to improve workability and grip, at the rate of 1.5 kg/m² per mm of thickness. The installation areas should be clean and stable. Later, after at least 5 days, proceed to the final finishing with a mural coating of the arteMURI line.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1200 kg/m ³ determined in free fall |
| Particle size | < 0,8 mm |
| Application size | 2-3 mm. per coat |
| Water in the mix | approx. 27% |
| Consumption | 1.5 kg/m ² per mm. thickness |
| Pot life after mixing | approx. 4 hrs. |
| Mechanical resistance to compression at 28 days | CS III |
| Adhesion to brick | 1,0 N/mm ² |
| Fracture type | A |
| Permeability to water vapor μ | 14 |
| Water absorption | W1 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,39 W/mK (tabulated value) |

Disclaimers

Do not mix AG10 Rasotherm with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using AG10 Rasotherm when temperatures are below +5°C or above +30°C. For the application onto thick plasters or thermal insulation plasters, check for proper curing.



adhesives and glues glues for coatings

AC 07 ISOLFLEX AC 08 ISOLFLEX

Powder flexible adhesive for thermal coating systems



Product description

Dry premixed adhesive based on selected inerts, hydraulic binders and special additives to improve workability and elasticity.

Supply and Storage

AC07-AC08 Isolflex is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stamped on the bag. Available also in bulk with silo plant.



Surface Preparation and Application

The areas of installation must be free from dust and dirt. Any traces of oils, fats, waxes, etc. must first be removed, as well as any inconsistent or brittle parts. Prepare the dough by adding about 6 liters of clean water for every 25 kg bag of AC07-AC08 Isolflex and mix by hand or with mechanical stirrer to obtain a homogeneous mixture free of lumps. The dough thus obtained has a pot life of about 4 hours. After being allowed to stand for 10 minutes, stir again and apply as usual with the metallic spatula on the panel, tapping it if necessary, to make it well-adherent to the support. The panels must be falsely installed and they require fixing with appropriate anchors. Later, after at least 48-72 hours, proceed, by using the same product, to the shaving of the panels by using a toothed spatula, taking care to respect a minimum thickness of 3 mm so that

an alkali-resistant fiberglass mesh can be embedded. Before the finishing (decorative coating from the arteMURI line), wait for min. 14 days.

Fields of use

AC07-AC08 Isolflex is a premixed adhesive used for bonding and leveling expanded polystyrene insulation panels and mineral wool of the Grigotherrm line.

Specifications

The insulation panels should be glued with the powder gray/white flexible adhesive AC07-AC08 Isolflex from Fornaci Calce Grigolin, based on hydraulic binder, selected sands, resins and special additives to improve workability and grip, at a rate of 8-10 kg/m² (bonding and shaving). The installation areas should be clean and stable, then, after at least 48-72 hours, proceed to the shaving of panels by using the same product.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1350 kg/m ³ determined in free fall |
| Available colors | AC 07 Isolflex grey AC 08 Isolflex white |
| Particle size | 0,8 mm |
| Application thickness | 2-3 mm. per coat |
| Water in the mix | approx. 23% |
| Consumption | 8-10 kg/m ² (adhesive+skim plaster)* 4-6 kg/m ² (skim plaster)* |
| Pot life after mixing | approx. 4 hrs. |
| Mechanical resistance to compression at 28 days | CS IV |
| Adhesion to brick | 1,5 N/mm ² |
| Fracture type | A |
| Flexibility | high |
| Permeability to water vapor μ | 15 |
| Water absorption | W1 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.42 W/mK (tabulated value) |

* Values depend on tile and surface type

Disclaimers

Do not mix AC07-AC08 Isolflex with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using AC07-AC08 Isolflex when temperatures are below +5°C or above +30°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

adhesives and glues glues for coatings

AG 12 RINFLEX

Light color, powder, multi-purpose skim plaster with high mechanical characteristics



Product description

Dry premixed skim plaster based on selected inerts, hydraulic binders and special additives to improve workability and increase mechanical resistance.

Supply and Storage

AG12 Rinflex is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The areas of installation must be free from dust and dirt. Any traces of oils, fats, waxes, etc. must first be removed, as well as any inconsistent or brittle parts.

Prepare the dough by adding about 7 liters of clean water for every 25 kg bag of AG12 Rinflex and mix by hand or with mechanical stirrer to obtain a homogeneous mixture free of lumps. The dough thus obtained has a pot life of about 4 hours. After being allowed to stand for 10 minutes, stir again and apply as usual with the metallic spatula on the panel, at a rate of approx. 2-3 cm. per coat. Any finishing of the product must be done during plastic phase, by moistening the surface and then working with the plastic float until obtaining a fine finish. Before the finishing (decorative coating from the arteMURI line), wait for min. 14 days.

Fields of use

AG12 Rinflex is a premixed skim plaster used to level surfaces of plasters that have imperfections.

AG12 Rinflex is particularly suitable for applications and finishes where you want to achieve good adhesion and high mechanical performances. It may be used to glue and shave cork and mineral wool insulation panels of the Grigotherm line.

Specifications

The plasters should be leveled (and reinforced, if necessary) with the powder multi-purpose skim plaster AG12 Rinflex from Fornaci Calce Grigolin, based on hydraulic binder, selected sands, resins and special additives to improve workability and grip, at a rate of 1.5 kg/m² for each mm. thickness. The installation areas should be clean and stable, then, after at least 14 days, proceed to the final finishing with a mural coating of the arteMURI line.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1300 kg/m ³ determined in free fall |
| Particle size | < 1,2 mm |
| Application thickness | 2-3 mm. per coat |
| Water in the mix | approx. 28% |
| Consumption | 10-12 kg/m ² (adhesive+skim plaster)* 6-8 kg/m ² (skim plaster)* |
| Pot life after mixing | approx. 4 hrs. |
| Mechanical resistance to compression at 28 days | CS IV |
| Adhesion to brick | 1,2 N/mm ² |
| Fracture type | A |
| Permeability to water vapor μ | 14 |
| Water absorption | W1 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.36 W/mK (tabulated value) |

* Values depend on tile and surface type

Disclaimers

Do not mix AG12 Rinflex with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using AG12 Rinflex when temperatures are below +5°C or above +30°C. For the application onto thick plasters or thermal insulation plasters, check for proper curing.

Given the high mechanical resistance of AG12 Rinflex, do not apply onto inconsistent surfaces without a proper consolidation treatment.



adhesives and glues glues for coatings

AG 14 POLYFLEX

Light color, powder, multi-purpose
skim plaster with low elastic
module



Product description

Dry premixed skim plaster based on selected inerts, hydraulic binders, synthetic fibers and special additives to improve workability and elasticity.

Supply and Storage

AG14 Polyflex is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The areas of installation must be free from dust and dirt. Any traces of oils, fats, waxes, etc. must first be removed, as well as any inconsistent or brittle parts. Prepare the dough by adding about 7 liters of clean water for every 25 kg bag of AG14 Polyflex and mix by hand or with mechanical stirrer to obtain a homogeneous mixture free of lumps. The dough thus obtained has a pot life of about 4 hours. After being allowed to stand for 10 minutes, stir again and apply as usual with the metallic spatula on the panel, at a rate of approx. 2-3 cm. per coat (if the application is made on thermal insulation plaster, do not exceed that thickness).

Any finishing of the product must be done during plastic phase, by moistening the surface and then working with the plastic float until obtaining a fine finish. Before the finishing (decorative coating from the arteMURI line), wait for min. 14 days.

Fields of use

AG14 Polyflex is a premixed skim plaster used to level surfaces of plasters that have imperfections. The special formula allows for the finish of plasters that have

imperfections up to maximum 5 mm. and for the filling of cracks on plasters, before applying the finish. Particularly indicated for restoration works and for applications on thermal insulation plaster (like Hydrotherm), on certain types of insulation bricks (cellular cement blocks or mineral wood) before the application of the finish; this intervention must be carried out on properly seasoned thermal insulation plasters (1 week per cm of thickness applied). It may be used to glue and level mineral wood panels and to level cork or mineral wool insulation panels in the thermal insulation coating of the Grigothem line. Is used to embed reinforcement meshes.

Specifications

The plaster (thermal insulated or regular) should be leveled with the multi-purpose powder skim plaster AG14 Polyflex of Fornaci Calce Grigolin, based on hydraulic binders, selected sands, resins and special additives to improve workability and grip, at the rate of 1.4 kg/m² per mm of thickness. The installation areas should be clean and stable. Later, after at least 14 days, proceed to the final finishing with a mural coating of the arteMURI line.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1200 kg/m ³ determined in free fall |
| Particle size | < 1,25 mm |
| Application thickness | 2-3 mm. per coat |
| Water in the mix | approx. 30% |
| Consumption | 10-12 kg/m ² (adhesive+skim plaster)* 6-8 kg/m ² (skim plaster)* |
| Pot life after mixing | approx. 4 hrs. |
| Mechanical resistance to compression at 28 days | CS III |
| Adhesion to brick | 1,2 N/mm ² |
| Fracture type | A |
| Flexibility | good |
| Permeability to water vapor μ | 13 |
| Water absorbtion | W1 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.36 W/mK (tabulated value) |

* Values depend on tile and surface type

Disclaimers

Do not mix AG14 Polyflex with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using AG14 Polyflex when temperatures are below +5°C or above +30°C. For the application onto thick plasters or thermal insulation plasters, check for proper curing.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



adhesives and glues glues for coatings

AC 16 UNIRAS

Light color, powder, adhesive
skim plaster for thermal insulation
coatings



Product description

Dry premixed skim plaster based on selected inerts, hydraulic binders and special additives to improve workability and increase adhesive power.

Supply and Storage

AC16 Uniras is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The areas of installation must be free from dust and dirt. Any traces of oils, fats, waxes, etc. must first be removed, as well as any inconsistent or brittle parts. Prepare the dough by adding about 7 liters of clean water for every 25 kg bag of AC16 Uniras and mix by hand or with mechanical stirrer to obtain a homogeneous mixture free of lumps. The dough thus obtained has a pot life of about 4 hours. After being allowed to stand for 10 minutes, stir again and apply as usual with the metallic spatula on the panel, tapping it if necessary, to make it well-adherent to the support. The panels must be falsely installed and they require fixing with plastic anchors. Later, after at least 48-72 hours, proceed, by using the same product, to the shaving of the panels by using a metallic spatula, taking care to respect a minimum thickness of 3 mm so that an alkali-resistant fiberglass mesh can

be embedded. Before the finishing (decorative coating from the arteMURI line), wait for min. 14 days.

Fields of use

AC16 Uniras is a premixed adhesive used for bonding and leveling any type of insulation panels of the Grigothem line. Is is used to embed reinforcement meshes.

Specifications

The insulation panels should be glued with the powder white skim plaster AC16 Uniras from Fornaci Calce Grigolin, based on hydraulic binder, selected sands, resins and special additives to improve workability and grip, at a rate of 8-10 kg/m² (bonding and shaving). The installation areas should be clean and stable, then, after at least 48-72 hours, proceed to the shaving of panels by using the same product.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1350 kg/m ³ determined in free fall |
| Particle size | < 1,25 mm |
| Application thickness | 2-3 mm. per coat |
| Water in the mix | approx. 28% |
| Consumption | 8-10 kg/m ² (adhesive+skim plaster)* 4-6 kg/m ² (skim plaster)* |
| Pot life after mixing | approx. 4 hrs. |
| Mechanical resistance to compression at 28 days | CS III |
| Adhesion to brick | 1,2 N/mm ² |
| Fracture type | A |
| Flexibility | good |
| Permeability to water vapor μ | 14 |
| Water absorbtion | W1 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.38 W/mK (tabulated value) |

* Values depend on tile and surface type

Disclaimers

Do not mix AC16 Uniras with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using AC16 Uniras when temperatures are below +5°C or above +30°C. For the application onto thick plasters or thermal insulation plasters, check for proper curing.



adhesives and glues glues for coatings

AC 18 RASOLIGHT

Light color, powder skim plaster
with low thermal conductivity



Product description

Dry premixed skim plaster based on selected inerts, polystyrene, hydraulic binders and special additives to improve workability and increase adhesive power.

Supply and Storage

AC18 Rasolight is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The areas of installation must be free from dust and dirt. Any traces of oils, fats, waxes, etc. must first be removed, as well as any inconsistent or brittle parts. Prepare the dough by adding about 6.5 liters of clean water for every 25 kg bag of AC18 Rasolight and mix by hand or with mechanical stirrer to obtain a homogeneous mixture free of lumps. The dough thus obtained has a pot life of about 6 hours. After being allowed to stand for 10 minutes, stir again and apply as usual with the toothed spatula on the panel, proceeding with the skim plastering, taking care to observe a min. of 3 mm. so that an alkali resistant fiberglass mesh may be embedded. Before the finishing (decorative coating from the arteMURI line), wait for min. 14 days.

Fields of use

AC18 Rasolight is a premixed skim plaster used for leveling any type of insulation panels of the Grigotharm line. Thanks to its special formula, it is particularly suited for all interventions which require low thermal conductivity values, even for the skim plaster layer.

Specifications

The insulation panels should be leveled with the white skim plaster AC18 Rasolight from Fornaci Calce Grigolin, based on hydraulic binder, selected sands, polystyrene, resins and special additives to improve workability and grip, at a rate of 5 kg/m², depending on panel type.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1100 kg/m ³ determined in free fall |
| Particle size | < 1,25 mm |
| Application thickness | 2-3 mm. per coat up to max. 6 mm. |
| Water in the mix | approx. 28% |
| Consumption | 4-6 kg/m ² (skim plaster)* |
| Pot life after mixing | approx. 4 hrs. |
| Mechanical resistance to compression at 28 days | CS II |
| Adhesion to brick | 0,8 N/mm ² |
| Fracture type | A |
| Flexibility | good |
| Permeability to water vapor μ | 14 |
| Water absorbtion | W1 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.35 W/mK (tabulated value) |

* Values depend on tile and surface type

Disclaimers

Do not mix AC18 Rasolight with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using AC18 Rasolight when temperatures are below +5°C or above +30°C. For the application onto thick plasters or thermal insulation plasters, check for proper curing.



The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

adhesives and glues glues for coatings

AC 20 UNILIGHT

Light color, powder adhesive
skim plaster with low thermal
conductivity



Product description

Dry premixed skim plaster based on selected inerts, polystyrene, hydraulic binders and special additives to improve workability and increase adhesive power.

Supply and Storage

AC20 Unilight is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The areas of installation must be free from dust and dirt. Any traces of oils, fats, waxes, etc. must first be removed, as well as any inconsistent or brittle parts. Prepare the dough by adding about 9 liters of clean water for every 25 kg bag of AC20 Unilight and mix by hand or with mechanical stirrer to obtain a homogeneous mixture free of lumps.

The dough thus obtained has a pot life of about 4 hours. After being allowed to stand for 10 minutes, stir again and apply as usual with the metallic spatula on the panel, tapping it if necessary, to make it well-adherent to the support. The panels must be falsely installed and they require fixing with the appropriate type of anchors.

Later, after at least 48-72 hours, proceed, by using the same product, to the shaving of the panels by using a metallic spatula, taking care to respect a minimum thickness of 3 mm. so that an alkali-resistant fiberglass mesh can be embedded. Before the finishing (decorative coating from the arteMURI line), wait for min. 14 days.

Fields of use

AC20 Unilight is a premixed adhesive used for leveling and gluing any type of insulation panels of the GrigoTherm line. Is is used to embed reinforcement meshes. Thanks to its special formula, it is particularly suited for all interventions which require low thermal conductivity values, even for the skim plaster layer.

Specifications

The insulation panels should be fastened with the white adhesive skim plaster AC20 Unilight from Fornaci Calce Grigolin, based on hydraulic binder, selected sands, polystyrene, resins and special additives to improve workability and grip, at a rate of 5 kg/m², when used as adhesive and 5 kg/m², when used as skim plaster. The installation areas should be clean and stable, then, after at least 48-72 hours, proceed to the shaving of panels by using the same product.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1050 kg/m ³ determined in free fall |
| Particle size | < 1,25 mm |
| Application thickness | 5 mm |
| Water in the mix | approx. 36% |
| Consumption | 8-10 kg/m ² (adhesive+skim plaster)* 4-6 kg/m ² (skim plaster)* |
| Pot life after mixing | approx. 4 hrs. |
| Mechanical resistance to compression at 28 days | CS III |
| Adhesion to brick | 1 N/mm ² |
| Fracture type | A |
| Flexibility | good |
| Permeability to water vapor μ | 12 |
| Water absorbtion | W1 |
| Fire resistance | A1 class |
| Thermal conductivity λ | < 0.35 W/mK (tabulated value) |

* Values depend on tile and surface type

Disclaimers

Do not mix AC20 Unilight with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using AC20 Unilight when temperatures are below +5°C or above +30°C. For the application onto thick plasters or thermal insulation plasters, check for proper curing.





plasters

| | |
|----------|---------|
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| | |
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plasters

The technological reliability and customer service, which is the know-how of Grigolin Constructive Developments, have given birth to the Fornaci Calce Grigolin Plaster line, composed of a wide range of plasters which vary depending on the final use and direct relation to the support on which they must be applied.

Given the increasing needs of modern construction sites, the Plaster line offers many variations, all strictly premix from selected components that respond to all demands, guaranteeing at the same time a high quality.



plasters

IG 14

Traditional background plaster for interior and exterior surfaces



Product description

Dry premix based on calcium-silicate inerts, hydraulic binder, hydrated lime and special additives.

Supply and Storage

IG14 is supplied in bulk with 22 m³ silo plant and in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

Areas affected by irregularities larger than 2 cm should be prepared with at least 48 hours in advance with a filling of the same IG14, avoiding the use of too much water during dough preparation, which might lead to a decrease in mechanical strength.

For the application, proceed as following: after having positioned the cornerings, preferably with the same IG14, and adjusted the water mixture to obtain a consistent mortar with plastic appearance, you may start working at a distance of about 15-20 cm in order to obtain a thickness of about 1-2 cm per coat. After a few minutes, even off with the aluminum level.

The product thus applied, after about 4 hours, can be "scratched" and is fit for positioning the corners for the successive finishing with fine mortar, to be carried out within the next 24-48 hours, depending on external temperature.

If this is not possible, it is recommended to use, before the fine mortar, a primer such as our PRG10, in order to prevent dehydration and subsequent detachment of the finish itself. If the finish is a thick or plastic coating, the same IG14 should be applied at a rate of 2-3 mm, always "fresh on fresh", and subsequently smoothed off. If the surface finish consists of ceramic tiles, the surface should not be scratched, but instead it should be smoothed off using the appropriate type of float. In order to obtain

a better finished result, we recommend the use of a flexible adhesive with high grip such as our own AG05 - AG06, applied in double coating.

Fields of use

IG14 may be used for plastering interior and exterior surfaces like brick, rough concrete, blocks and network port plaster. Smooth concrete structures must first be primed with our own RG12. IG14 should not be applied to gypsum, painted or crumbly and insubstantial surfaces. For thermal insulation blocks, it is recommended the use of FG99.

Specifications

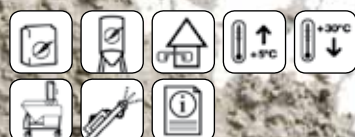
The surfaces to be plastered must be clean, stable, eventually humidified and must have a level surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered, by means of machine with screw lung, with IG14 plaster from Fornaci Calce Grigolin, dry premix based on calcium-silicate inerts, hydraulic and aerial binders and special additives to improve workability and grip, at a rate of 14 kg/m² for a thickness of 1 cm. The use of calcium-silicate inerts in the production of such concrete gives the finished product a high resistance to weather agents (acid rain, air pollution, etc.), given the chemical nature of the product. The minimum application thickness should be of no less than 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1450 kg/m ³ determined in free fall |
| Maximum diameter | 1,2 mm |
| Pot life | 20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 21% |
| Consumption | 14 kg/m ² per 1 cm. thickness |
| Minimum application thickness | 1,5 cm |
| Mechanical resistance to flexion at 28 days | 1,6 N/mm ² |
| Mechanical resistance to compression at 28 days | 3 N/mm ² |
| Water vapor permeability μ | 9 |
| Adhesion to brick | 0,7 N/mm ² |
| Fracture type | A |
| Water absorption | W0 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,38 W/mk (tabulated value) |

Disclaimers

Do not mix IG14 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using IG14 when temperatures are below +5°C or above +30°C.



plasters

IGK 14

Waterproof traditional background plaster for interior and exterior surfaces



Product description

Dry premix based on calcium-silicate inerts, hydraulic binder, hydrated lime, waterproofing agent and special additives.

Supply and Storage

IGK14 is supplied in bulk with 22 m³ silo plant and in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

Areas affected by irregularities larger than 2 cm should be prepared with at least 48 hours in advance with a filling of the same IGK14, avoiding the use of too much water during dough preparation, which might lead to a decrease in mechanical strength. For the application, proceed as following: after having positioned the cornerings, preferably with the same IGK14, and adjusted the water mixture to obtain a consistent mortar with plastic appearance, you may start working at a distance of about 15-20 cm in order to obtain a thickness of about 1-2 cm per coat. After a few minutes, even off with the aluminum level. The product thus applied, after about 4 hours, can be "scratched" and is fit for positioning the corners for the successive finishing with fine mortar, to be carried out within the next 24-48 hours, depending on external temperature. If this is not possible, it is recommended to use, before the fine mortar, a primer such as our PRG10, in order to prevent dehydration and subsequent detachment of the finish itself. If the finish is a thick or plastic coating, the same IGK14 should be applied at a rate of 2-3 mm, always "fresh on fresh", and subsequently smoothed off. If the surface finish consists of ceramic tiles, the surface should not be scratched, but instead it should be smoothed off using the appropriate type of float. In order to obtain a better finished result, we recommend the use of a flexible adhesive with high grip such as our own AG05 - AG06, applied in double coating.

Fields of use

IGK14 may be used for plastering interior and exterior surfaces like brick, rough concrete, blocks and network port plaster. Smooth concrete structures must first be primed with our own RG12. Due to its special formula, it is ideal for exterior use or in humid environments and spaces. IGK14 should not be applied to gypsum, painted or crumbly and insubstantial surfaces. For thermal insulation blocks, it is recommended the use of FG99.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a level surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered, by means of machine with screw lung, with IGK14 plaster from Fornaci Calce Grigolin, dry premix based on calcium-silicate inerts, hydraulic and aerial binders and special additives to improve workability and grip and waterproofing agent aimed at increasing water repellence, at a rate of 14 kg/m² for a thickness of 1 cm. The use of calcium-silicate inerts in the production of such concrete gives the finished product a high resistance to weather agents (acid rain, air pollution, etc.), given the chemical nature of the product. The minimum application thickness should be of no less than 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1450 kg/m ³ determined in free fall |
| Maximum diameter | 1,2 mm |
| Pot life | 20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 21% |
| Consumption | 14 kg/m ² per 1 cm. thickness |
| Minimum application thickness | 1,5 cm |
| Mechanical resistance to flexion at 28 days | 1,6 N/mm ² |
| Mechanical resistance to compression at 28 days | 3 N/mm ² |
| Water vapor permeability μ | 9 |
| Adhesion to brick | 0,7 N/mm ² |
| Fracture type | A |
| Water absorbtion | W2 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,38 W/mk (tabulated value) |

Disclaimers

Do not mix IGK14 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using IGK14 when temperatures are below +5°C or above +30°C.



plasters

IG 14 FIBRATO

Traditional background plaster for interior and exterior surfaces



Product description

Dry premix based on calcium-silicate inerts, hydraulic binder, hydrated lime, synthetic fibers and special additives.

Supply and Storage

IG14 FIBER is supplied in bulk with 22 m³ silo plant.

Surface Preparation and Application

Areas affected by irregularities larger than 2 cm should be prepared with at least 48 hours in advance with a filling of the same IG14 FIBER, avoiding the use of too much water during dough preparation, which might lead to a decrease in mechanical strength.

For the application, proceed as following: After having positioned the cornerings, preferably with the same IG14 FIBER, and adjusted the water mixture to obtain a consistent mortar with plastic appearance, you may start working at a distance of about 15-20 cm in order to obtain a thickness of about 1-2 cm per coat. After a few minutes, even off with the aluminum level. The product thus applied, after about 4 hours, can be "scratched" and is fit for positioning the corners for the successive finishing with fine mortar, to be carried out within the next 24-48 hours, depending on external temperature.

If this is not possible, it is recommended to use, before the fine mortar, a primer such as our PRG10, in order to prevent dehydration and subsequent detachment of the finish itself. If the finish is a thick or plastic coating, the same IG14 FIBER should be applied at a rate of 2-3 mm, always "fresh on fresh", and subsequently smoothed off. If the surface finish consists of ceramic tiles, the surface should not be scratched, but instead it should be smoothed off using the appropriate type of float. In order to obtain a better finished

result, we recommend the use of a flexible adhesive with high grip such as our own AG05 - AG06, applied in double coating.

Fields of use

IG14 FIBER may be used for plastering interior and exterior surfaces like brick, rough concrete, blocks and network port plaster. Smooth concrete structures must first be primed with our own RG12. IG14 FIBER should not be applied to gypsum, painted or crumbly and insubstantial surfaces. For thermal insulation blocks, it is recommended the use of FG99.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a level surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered, by means of machine with screw lung, with IG14 FIBER plaster from Fornaci Calce Grigolin, dry premix based on calcium-silicate inerts, hydraulic and aerial binders, polypropylene synthetic fibers and special additives to improve workability and grip, at a rate of 14 kg/m² for a thickness of 1 cm. The use of calcium-silicate inerts in the production of such concrete gives the finished product a high resistance to weather agents (acid rain, air pollution, etc.), given the chemical nature of the product. The minimum application thickness should be of no less than 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1.450 kg/m ³ determined in free fall |
| Maximum diameter | 1,2 mm |
| Pot life | 20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 21% |
| Consumption | 14 kg/m ² per 1 cm. thickness |
| Minimum application thickness | 1,5 cm |
| Mechanical resistance to flexion at 28 days | 1,7 N/mm ² |
| Mechanical resistance to compression at 28 days | 3,5 N/mm ² |
| Water vapor permeability μ | 9 |
| Adhesion to brick | 0,7 N/mm ² |
| Fracture type | A |
| Water absorption | W0 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.38 W/mk (tabulated value) |

Disclaimers

Do not mix IG14 FIBER with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using IG14 FIBER when temperatures are below +5°C or above +30°C.



plasters

IG 27

Traditional background plaster for interior and exterior surfaces



Product description

Dry premix based on calcium-silicate inerts, hydraulic binder, hydrated lime and special additives.

Supply and Storage

IG27 is supplied in bulk with 22 m³ silo plant and in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

Areas affected by irregularities larger than 2 cm should be prepared with at least 48 hours in advance with a filling of the same IG27, avoiding the use of too much water during dough preparation, which might lead to a decrease in mechanical strength.

For the application, proceed as following: after having positioned the cornerings, preferably with the same IG27, and adjusted the water mixture to obtain a consistent mortar with plastic appearance, you may start working at a distance of about 20 cm in order to obtain a thickness of about 1-2 cm per coat. After a few minutes, even off with the aluminum level. The product thus applied, after about 4 hours, can be "scratched" and is fit for positioning the corners for the successive finishing with fine mortar, to be carried out within the next 24-48 hours, depending on external temperature. If this is not possible, it is recommended to use, before the fine mortar, a primer such as our PRG10, in order to prevent dehydration and subsequent detachment of the finish itself. If the finish is a thick or plastic coating, the same IG27 should be applied at a rate of 2-3 mm, always "fresh on fresh", and subsequently smoothed off.

Fields of use

IG27 may be used for plastering interior and exterior surfaces like brick, rough concrete, blocks and network port plaster. Smooth concrete structures must first be primed with our own RG12. IG27 should not be applied to gypsum, painted or crumbly and insubstantial surfaces. For thermal insulation blocks, it is recommended the use of FG99.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a level surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered, by means of machine with screw lung, with IG27 plaster from Fornaci Calce Grigolin, dry premix based on calcium-silicate inerts, hydraulic and aerial binders and special additives to improve workability and grip, at a rate of 15 kg/m² for a thickness of 1 cm. The use of calcium-silicate inerts in the production of such concrete gives the finished product a high resistance to weather agents (acid rain, air pollution, etc.), given the chemical nature of the product. The minimum application thickness should be of no less than 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1550 kg/m ³ determined in free fall |
| Maximum diameter | 2,5 mm |
| Pot life | 20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 18% |
| Consumption | 15 kg/m ² per 1 cm. thickness |
| Minimum application thickness | 1,5 cm |
| Mechanical resistance to flexion at 28 days | 1,4 N/mm ² |
| Mechanical resistance to compression at 28 days | 3 N/mm ² |
| Water vapor permeability μ | 9 |
| Adhesion to brick | 0,7 N/mm ² |
| Fracture type | A |
| Water absorbtion | W0 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.44 W/mk (tabulated value) |

Disclaimers

Do not mix IG27 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using IG27 when temperatures are below +5°C or above +30°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



plasters

IG 28

Traditional background plaster for interior and exterior surfaces



Product description

Dry premix based on calcium-silicate inerts, hydraulic binder, hydrated lime and special additives.

Supply and Storage

IG28 is supplied in bulk with 22 m³ silo plant and in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

Areas affected by irregularities larger than 2 cm should be prepared with at least 48 hours in advance with a filling of the same IG28, avoiding the use of too much water during dough preparation, which might lead to a decrease in mechanical strength. For the application, proceed as following: after having positioned the cornerings, preferably with the same IG28, and adjusted the water mixture to obtain a consistent mortar with plastic appearance, you may start working at a distance of about 20 cm in order to obtain a thickness of about 1-2 cm per coat. After a few minutes, even off with the aluminum level. The product thus applied, after about 4 hours, can be "scratched" and is fit for positioning the corners for the successive finishing with fine mortar, to be carried out within the next 24-48 hours, depending on external temperature. If this is not possible, it is recommended to use, before the fine mortar, a primer such as our PRG10, in order to prevent dehydration and subsequent detachment of the finish itself. If the finish is a thick or plastic coating, the same IG28 should be applied at a rate of 2-3 mm, always "fresh on fresh", and subsequently smoothed off.

Fields of use

IG28 may be used for plastering interior and exterior surfaces like brick, rough concrete, blocks and network port plaster. Smooth concrete structures must first be primed with our own RG12. IG28 should not be applied to gypsum, painted or crumbly and insubstantial surfaces. For thermal insulation blocks, it is recommended the use of FG99.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a level surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered, by means of machine with screw lung or piston, with IG28 plaster from Fornaci Calce Grigolin, dry premix based on calcium-silicate inerts, hydraulic and aerial binders and special additives to improve workability and grip, at a rate of 15 kg/m² for a thickness of 1 cm. The use of calcium-silicate inerts in the production of such concrete gives the finished product a high resistance to weather agents (acid rain, air pollution, etc.), given the chemical nature of the product. The minimum application thickness should be of no less than 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1550 kg/m ³ determined in free fall |
| Maximum diameter | 2 mm |
| Pot life | 20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 18% |
| Consumption | 15 kg/m ² per 1 cm. thickness |
| Minimum application thickness | 1,5 cm |
| Mechanical resistance to flexion at 28 days | 1,7 N/mm ² |
| Mechanical resistance to compression at 28 days | 3,2 N/mm ² |
| Water vapor permeability μ | 10 |
| Adhesion to brick | 0,7 N/mm ² |
| Fracture type | A |
| Water absorption | W0 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.45 W/mk (tabulated value) |

Disclaimers

Do not mix IG28 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using IG28 when temperatures are below +5°C or above +30°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



plasters

IGK 28

Waterproof traditional background plaster for interior and exterior surfaces



Product description

Dry premix based on calcium-silicate inerts, hydraulic binder, hydrated lime, waterproofing agent and special additives.

Supply and Storage

IGK28 is supplied in bulk with 22 m³ silo plant.

Surface Preparation and Application

Areas affected by irregularities larger than 2 cm should be prepared with at least 48 hours in advance with a filling of the same IGK28, avoiding the use of too much water during dough preparation, which might lead to a decrease in mechanical strength.

For the application, proceed as following: after having positioned the cornerings, preferably with the same IGK28, and adjusted the water mixture to obtain a consistent mortar with plastic appearance, you may start working at a distance of about 20 cm in order to obtain a thickness of about 1-2 cm per coat. After a few minutes, even off with the aluminum level. The product thus applied, after about 4 hours, can be "scratched" and is fit for positioning the corners for the successive finishing with fine mortar, to be carried out within the next 24-48 hours, depending on external temperature.

If this is not possible, it is recommended to use, before the fine mortar, a primer such as our PRG10, in order to prevent dehydration and subsequent detachment of the finish itself. If the finish is a thick or plastic coating, the same IGK28 should be applied at a rate of 2-3 mm, always "fresh on fresh", and subsequently smoothed off.

Fields of use

IGK28 may be used for plastering interior and exterior surfaces like brick, rough concrete, blocks and network port plaster. Smooth concrete structures must first be primed with our own RG12. IGK28 should not be applied to gypsum, painted or crumbly and insubstantial surfaces. For thermal insulation blocks, it is recommended the use of FG99.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a level surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered, by means of machine with screw lung or piston, with IGK28 plaster from Fornaci Calce Grigolin, dry premix based on calcium-silicate inerts, hydraulic and aerial binders and special additives to improve workability and grip and waterproofing agent aimed at increasing water repellence, at a rate of 15 kg/m² for a thickness of 1 cm. The use of calcium-silicate inerts in the production of such concrete gives the finished product a high resistance to weather agents (acid rain, air pollution, etc.), given the chemical nature of the product. The minimum application thickness should be of no less than 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1550 kg/m ³ determined in free fall |
| Maximum diameter | 2 mm |
| Pot life | 20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 18% |
| Consumption | 15 kg/m ² per 1 cm. thickness |
| Minimum application thickness | 1,5 cm |
| Mechanical resistance to flexion at 28 days | 1,7 N/mm ² |
| Mechanical resistance to compression at 28 days | 3,2 N/mm ² |
| Water vapor permeability μ | 10 |
| Adhesion to brick | 0,7 N/mm ² |
| Fracture type | A |
| Water absorbtion | W2 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.45 W/mk (tabulated value) |

Disclaimers

Do not mix IGK28 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using IGK28 when temperatures are below +5°C or above +30°C.



plasters

FG 11

Background plaster for interior and exterior surfaces



Product description

Dry premix based on selected inerts, hydraulic binder, hydrated lime and special additives.

Supply and Storage

FG11 is supplied in bulk with 22 m³ silo plant and in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

Areas affected by irregularities larger than 2 cm should be prepared with at least 48 hours in advance with a filling of the same FG11, avoiding the use of too much water during dough preparation, which might lead to a decrease in mechanical strength.

For the application, proceed as following after having positioned the cornerings, preferably with the same FG11, and adjusted the water mixture to obtain a consistent mortar with plastic appearance, you may start working at a distance of about 15-20 cm in order to obtain a thickness of about 1-2 cm per coat, with a time interval between applications no greater than 8-12 hours, so that the product may not develop a hard surface. After a few minutes, even off with the aluminum level.

The product thus applied, after about 4 hours, can be "scratched" and is fit for positioning the corners for the successive finishing with fine mortar, to be carried out within the next 24-48 hours, depending on external temperature. If this is not possible, it is recommended to use, before the fine mortar, a primer such as our PRG10, in order to prevent dehydration and subsequent detachment of the finish itself. If the finish is a thick

or plastic coating, the same FG11 should be applied at a rate of 2-3 mm, always "fresh on fresh", and subsequently smoothed off.

Fields of use

FG11 may be used for plastering interior and exterior surfaces like brick, rough concrete, blocks and network port plaster. Smooth concrete structures must first be primed with our own RG12. FG11 should not be applied to gypsum, painted or crumbly and insubstantial surfaces. For thermal insulation blocks, it is recommended the use of FG99.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a level surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered, by means of machine with screw lung, with FG11 plaster from Fornaci Calce Grigolin, dry premix based on selected inerts, hydraulic and aerial binders and special additives to improve workability and grip, at a rate of 14 kg/m² for a thickness of 1 cm. The minimum application thickness should be of no less than 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1450 kg/m ³ determined in free fall |
| Maximum diameter | 1,2 mm |
| Pot life | 20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 21% |
| Consumption | 14 kg/m ² per 1 cm. thickness |
| Minimum application thickness | 1,5 cm |
| Mechanical resistance to flexion at 28 days | 1,2 N/mm ² |
| Mechanical resistance to compression at 28 days | 2,5 N/mm ² |
| Water vapor permeability μ | 7 |
| Water absorption | W0 |
| Adhesion to brick | 0,5 N/mm ² |
| Fracture type | A |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.40 W/mk (tabulated value) |

Disclaimers

Do not mix FG11 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using FG11 when temperatures are below +5°C or above +30°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



plasters

FG 12

Background plaster for interior and exterior surfaces



Product description

Dry premix based on selected inerts, hydraulic binder, hydrated lime and special additives.

Supply and Storage

FG12 is supplied in bulk with 22 m³ silo plant and in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface preparation and Application

Areas affected by irregularities larger than 2 cm should be prepared at least 48 hours in advance, with a filling of the same FG12, avoiding use of too much water during dough preparation, which could lead to a decrease in mechanical strength.

For the application, operate as follows: having positioned the corners, preferably with the same FG12, and set the water mixture to obtain a mortar of consistent and plastic appearance, you may start working at a distance of about 15-20 cm to obtain a thickness of about 1-2 cm per coat. After a few minutes, even off with the aluminum level.

The product thus applied, after about 4 hours, can be "scratched" and is fit for fixing the corners with mortar for the successive finishing, to be carried out within the next 24-48 hours, depending on external temperature.

If this is not possible, it is recommended to use, before the fine mortar, a primer such as our PRG10, in order to prevent dehydration and subsequent detachment of the finish itself. If the finish is a thick or plastic coating, it should be

applied at a rate of 2-3 mm, always "fresh on fresh", the same FG12 and then smoothed.

Fields of use

FG12 may be used for interior and exterior plastering on surfaces like brick, rough concrete, blocks and plaster port network. Smooth concrete structures must first be primed with our own RG12. FG12 should not be applied to gypsum, painted or crumbly and insubstantial surfaces. For thermal insulation blocks, it is recommended the use of FG99.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a uniform surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered by a lung-screw machine with the FG12 plaster from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders, special additives for improving workability and grip, at a rate of 14 kg/m² for a thickness of 1 cm. The minimum application thickness will be of 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1450 kg/m ³ determined in free fall |
| Maximum diameter | 1,2 mm |
| Pot life | 20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 21 % |
| Consumption | 14 kg/m ² per 1 cm. thickness |
| Minimum application thickness | 1,5 cm |
| Mechanical resistance to flexion at 28 days | 1,4 N/mm ² |
| Mechanical resistance to compression at 28 days | 2,7 N/mm ² |
| Water vapor permeability μ | 7 |
| Adhesion to brick | 0,6 N/mm ² |
| Fracture type | A |
| Water absorption | W0 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,40 W/mk (tabulated value) |

Disclaimers

Do not mix FG12 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using FG12 when temperatures are below +5°C or above +30°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



plasters

FGK 12

Waterproof background plaster for interior and exterior surfaces



Product description

Dry premix based on selected inerts, hydraulic binder, hydrated lime, waterproofing agent and special additives.

Supply and Storage

FGK12 is supplied in bulk with 22 m³ silo plant and in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface preparation and Application

Areas affected by irregularities larger than 2 cm should be prepared at least 48 hours in advance, with a filling of the same FGK12, avoiding use of too much water during dough preparation, which could lead to a decrease in mechanical strength. For the application, operate as follows: having positioned the corners, preferably with the same FGK12, and set the water mixture to obtain a mortar of consistent and plastic appearance, you may start working at a distance of about 15-20 cm to obtain a thickness of about 1-2 cm per coat. After a few minutes, even off with the aluminum level. The product thus applied, after about 4 hours, can be "scratched" and is fit for fixing the corners with mortar for the successive finishing, to be carried out within the next 24-48 hours, depending on external temperature. If this is not possible, it is recommended to use, before the fine mortar, a primer such as our PRG10, in order to prevent dehydration and subsequent detachment of the finish itself. If the finish is a thick or plastic coating, it should be applied at a rate of 2-3 mm, always "fresh on fresh", the same FGK12 and then smoothed.

Fields of use

FGK12 may be used for plastering interior and exterior surfaces like brick, rough concrete, blocks and network port plaster. Smooth concrete structures must first be primed with our own RG12. Due to its special formula, it is ideal for exterior use or in humid environments and spaces. FGK12 should not be applied to gypsum, painted or crumbly and insubstantial surfaces. For thermal insulation blocks, it is recommended the use of FG99.

Specifications

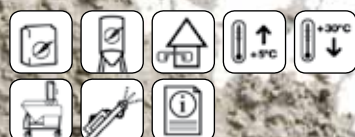
The surfaces to be plastered must be clean, stable, eventually humidified and must have a uniform surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered by a lung-screw machine with the FGK12 plaster from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders, special additives for improving workability and grip and waterproofing agent aimed at increasing water repellence, at a rate of 14 kg/m² for a thickness of 1 cm. The minimum application thickness will be of 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1450 kg/m ³ determined in free fall |
| Maximum diameter | 1,2 mm |
| Pot life | 20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 21% |
| Consumption | 14 kg/m ² per 1 cm. thickness |
| Minimum application thickness | 1,5 cm |
| Mechanical resistance to flexion at 28 days | 1,4 N/mm ² |
| Mechanical resistance to compression at 28 days | 2,7 N/mm ² |
| Water vapor permeability μ | 7 |
| Adhesion to brick | 0,6 N/mm ² |
| Fracture type | A |
| Water absorption | W2 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,40 W/mk (tabulated value) |

Disclaimers

Do not mix FGK12 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using FGK12 when temperatures are below +5°C or above +30°C.



plasters

FG 12 FIBRATO

Background plaster for interior and exterior surfaces



Product description

Dry premix based on selected inerts, hydraulic binder, hydrated lime, polypropylene synthetic fibers and special additives.

Supply and Storage

FG12 FIBER is supplied in bulk with 22 m³ silo plant.

Surface preparation and Application

Areas affected by irregularities larger than 2 cm should be prepared at least 48 hours in advance, with a filling of the same FG12 FIBER, avoiding use of too much water during dough preparation, which could lead to a decrease in mechanical strength. For the application, operate as follows: having positioned the corners, preferably with the same FG12 FIBER, and set the water mixture to obtain a mortar of consistent and plastic appearance, you may start working at a distance of about 15-20 cm to obtain a thickness of about 1-2 cm per coat. After a few minutes, even off with the aluminum level. The product thus applied, after about 4 hours, can be "scratched" and is fit for fixing the corners with mortar for the successive finishing, to be carried out within the next 24-48 hours, depending on external temperature. If this is not possible, it is recommended to use, before the fine mortar, a primer such as our PRG10, in order to prevent dehydration and subsequent detachment of the finish itself. If the finish is a thick or plastic coating, it should be applied at a rate of 2-3 mm, always "fresh on

fresh", the same FG12 FIBER and then smoothed.

Fields of use

FG12 FIBER may be used for plastering interior and exterior surfaces like brick, rough concrete, blocks and network port plaster. Smooth concrete structures must first be primed with our own RG12. FG12 FIBER should not be applied to gypsum, painted or crumbly and insubstantial surfaces. For any other type of surfaces, please contact our technical service.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a uniform surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered by a lung-screw machine with the FG12 FIBER plaster from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders, synthetic fibers and special additives for improving workability and grip, at a rate of 14 kg/m² for a thickness of 1 cm. The minimum application thickness will be of 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1450 kg/m³ determined in free fall |
| Maximum diameter | 1,2 mm |
| Pot life | 20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 21% |
| Consumption | 14 kg/m² per 1 cm. thickness |
| Minimum application thickness | 1,5 cm |
| Mechanical resistance to flexion at 28 days | 1,5 N/mm² |
| Mechanical resistance to compression at 28 days | 2,7 N/mm² |
| Water vapor permeability μ | 7 |
| Adhesion to brick | 0,6 N/mm² |
| Fracture type | A |
| Water absorption | W0 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,40 W/mk (tabulated value) |

Disclaimers

Do not mix FG12 FIBER with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using FG12 FIBER when temperatures are below +5°C or above +30°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



plasters

FG 13

Perlite-based background plaster for interior and exterior surfaces REI 120



Product description

Dry premix based on selected inerts, hydraulic binder, hydrated lime, special additives and perlite.

Supply and Storage

FG13 is supplied in bulk with 22 m³ silo plant and in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface preparation and Application

Areas affected by irregularities larger than 2 cm should be prepared at least 48 hours in advance, with a filling of the same FG13, avoiding use of too much water during dough preparation, which could lead to a decrease in mechanical strength. For the application, operate as follows: having positioned the corners, preferably with the same FG13, and set the water mixture to obtain a mortar of consistent and plastic appearance, you may start working at a distance of about 15-20 cm to obtain a thickness of about 1-2 cm per coat. After a few minutes, even off with the aluminum level.

The product thus applied, after about 4 hours, can be "scratched" and is fit for fixing the corners with fine mortar. If the finish is a thick or plastic coating, it should be applied at a rate of 2-3 mm, always "fresh on fresh", the same FG13 and then smoothed.

Fields of use

FG13 may be used for plastering interior

and exterior surfaces like brick, rough concrete, blocks and network port plaster. Smooth concrete structures must first be primed with our own RG12. Please check the REI 120 certificate for application procedures. FG13 should not be applied to gypsum, painted or crumbly and insubstantial surfaces. For thermal insulation blocks, it is recommended the use of FG99.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a uniform surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered by a lung-screw machine with the FG13 plaster from Fornaci Calce Grigolin, dry premix based on selected and perlite inerts, aerial and hydraulic binders and special additives for improving workability and grip, at a rate of 12-13 kg/m² for a thickness of 1 cm. The minimum application thickness will be of 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|--|--|
| Specific weight | 1350 kg/m ³ determined in free fall |
| Maximum diameter | 1,2 mm |
| Pot life | 20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 24% |
| Consumption | 12 kg/m ² per 1 cm. thickness |
| Minimum application thickness | 1,5 cm |
| Mechanical resistance to flexion at 28 days | 1,4 N/mm ² |
| Mechanical resistance to compression at 28 days | 2,5 N/mm ² |
| Water vapor permeability μ | 7 |
| Adhesion to brick | 0,5 N/mm ² |
| Fracture type | A |
| Water absorption | W0 |
| REI 120 Certificate released by THE GIORDANO INSTITUTE | n.132691/2042RF |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,36 W/mk (tabulated value) |

Disclaimers

Do not mix FG13 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using FG13 when temperatures are below +5°C or above +30°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



plasters

FG 99

Background plaster for porous walls



Product description

Dry premix based on selected inerts, hydraulic binder, hydrated lime, waterproofing agent, synthetic fibers, special additives and perlite.

Supply and Storage

FG99 is supplied in bulk with 22 m³ silo plant and in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface preparation and Application

Areas affected by irregularities larger than 3 cm should be prepared at least 48 hours in advance, with a filling of the same FG99, avoiding use of too much water during dough preparation, which could lead to a decrease in mechanical strength.

For the application, operate as follows: having positioned the corners, preferably with the same FG99, and set the water mixture to obtain a mortar of consistent and plastic appearance, you may start working at a distance of about 15-20 cm to obtain a thickness of about 2 cm per coat. After a few minutes, even off with the aluminum level.

The product thus applied, after about 4 hours, can be "scratched" and is fit for fixing the corners with mortar for the successive finishing, to be carried out within the next 24-48 hours, depending on external temperature. If this is not possible, it is recommended to use, before the fine mortar, a primer such as our PRG10, in order to prevent dehydration and subsequent detachment of the finish itself. If the finish is a thick or plastic coating, it should be applied at a rate of 2-3 mm, always "fresh on fresh", the same FG99 and then smoothed.

Fields of use

FG99 may be used for plastering interior and exterior surfaces like brick, rough concrete, blocks and network port plaster. Smooth concrete structures must first be primed with our own RG12. Due to its special formula, it is ideal for use on thermal insulation walls of lecablock, porous and alveolar bricks, mineral wood chipboard. FG99 should not be applied to gypsum, painted or crumbly and insubstantial surfaces.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a uniform surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered by a lung-screw machine with the FG99 plaster from Fornaci Calce Grigolin, fiber-reinforced premix based on selected and perlite inerts, aerial and hydraulic binders, synthetic fibers, special additives for improving workability and grip and waterproofing agent aimed at increasing water repellence, at a rate of 11-12 kg/m² for a thickness of 1 cm. The formula combination of synthetic fibers and waterproofing agent renders FG99 as ideal for use on porous walls. The minimum application thickness will be of 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1350 kg/m ³ determined in free fall |
| Maximum diameter | 1,2 mm |
| Pot life | 20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 24% |
| Consumption | 11-12 kg/m ² per 1 cm. thickness |
| Minimum application thickness | 1,5 cm |
| Mechanical resistance to flexion at 28 days | 1,1 N/mm ² |
| Mechanical resistance to compression at 28 days | 2 N/mm ² |
| Water vapor permeability μ | 8 |
| Adhesion to brick | 0,5 N/mm ² |
| Fracture type | A |
| Water absorption | W1 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,36 W/mk (tabulated value) |

Disclaimers

Do not mix FG99 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using FG99 when temperatures are below +5°C or above +30°C.



plasters

FG 98

Fiber-reinforced and lightweight background plaster



Product description

Dry premix based on selected inerts, hydraulic binder, hydrated lime, synthetic fibers, special additives and perlite.

Supply and Storage

FG98 is supplied in bulk with 22 m³ silo plant and in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface preparation and Application

Areas affected by irregularities larger than 3 cm should be prepared at least 48 hours in advance, with a filling of the same FG98, avoiding use of too much water during dough preparation, which could lead to a decrease in mechanical strength. For the application, operate as follows: having positioned the corners, preferably with the same FG98, and set the water mixture to obtain a mortar of consistent and plastic appearance, you may start working at a distance of about 15-20 cm in order to obtain a thickness of about 1-2 cm per coat, with a time interval between applications no greater than 8-12 hours, so that the product may not develop a hard surface. After a few minutes, even off with the aluminum level. The product thus applied, after about 4 hours, can be "scratched" and is fit for fixing the corners with mortar for the successive finishing, to be carried out within the next 24-48 hours, depending on external temperature. If this is not possible, it is recommended to use, before the fine mortar, a primer such as our PRG10, in order to prevent dehydration and subsequent detachment of the finish itself. If the finish is a thick or plastic coating, it should be applied at a rate of 2-3 mm, always "fresh on fresh", the same FG98 and then smoothed.

Fields of use

FG98 may be used for plastering interior and exterior surfaces like brick, rough concrete, blocks and network port plaster. Smooth concrete structures must first be primed with our own RG12. Due to its special formula, it is ideal for use on porous walls which undergo restoration work. FG98 should not be applied to gypsum, painted or crumbly and insubstantial surfaces.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a uniform surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered by a lung-screw machine with the FG98 plaster from Fornaci Calce Grigolin, fiber-reinforced premix based on selected and perlite inerts, aerial and hydraulic binders, synthetic fibers and special additives for improving workability and grip, at a rate of 11-12 kg/m² for a thickness of 1 cm. The formula combination of synthetic fibers and perlite inerts renders FG98 as ideal for use in restoration works. The minimum application thickness will be of 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1 350 kg/m ³ determined in free fall |
| Maximum diameter | 1,2 mm |
| Pot life | 20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 24% |
| Consumption | 11-12 kg/m ² per 1 cm. thickness |
| Minimum application thickness | 1,5 cm |
| Mechanical resistance to flexion at 28 days | 1,1 N/mm ² |
| Mechanical resistance to compression at 28 days | 2 N/mm ² |
| Water vapor permeability μ | 8 |
| Adhesion to brick | 0,5 N/mm ² |
| Fracture type | A |
| Water absorption | W0 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,36 W/mk (tabulated value) |

Disclaimers

Do not mix FG98 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using FG98 when temperatures are below +5°C or above +30°C.



plasters

HYDROTHERM

Thermal insulation background plaster



Product description

Dry premix based on hydraulic binders, polystyrene with a high degree of expansion, mineral aggregates and special additives which favor workability and guarantee water repellence.

Supply and Storage

HYDROTHERM is supplied in 50 lt. bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

HYDROTHERM can be applied both manually or by mechanical projection. For mechanical application it is recommended to use a full blades blender with an auxiliary "turbo", "rotorquill" mixer or similar. For the application, operate as follows: Having positioned the corners and set the water mixture to obtain a mortar of appropriate consistency and plastic appearance, you may start working at a distance of about 15-20 cm in order to obtain a thickness of about 3-4 cm per coat. After a few minutes, even off with the aluminum level. On the product applied as described above, after about 24-48 hours, once the surface is firm, you should start "scraping" the surface by using an american spatula in order to remove the polystyrene which is not fully integrated and, at the same time, to prepare an optimal surface for the subsequent finish, which may be done in one of two ways:

A) shaving, reinforcement, thickness 3-4 mm, to be performed after 4* weeks with products such as our own AG10 RASOTHERM or alternatively AG14 POLYFLEX and subsequent breathable colored finish, which should be done after 1 week, with our coatings of the arteMURI line based on silicates SIL4 INTO 0.7 ÷ 2.5 mm, on siloxane XIL2 INTO 0.7 ÷ 2.5 mm or on mineral GR 100-200-300;
B) directly with breathable colored finish, 4-5 mm thick, to be performed no earlier than 4* weeks after the laying of Grigolin, with our coatings of the arteMURI line based on silicates SIL4 INTO 0.7 ÷ 2.5 mm, on siloxane XIL2 INTO 0.7 ÷ 2.5 mm or on mineral GR 100-200-300.

*minimum drying period which may vary depending on weather conditions and in any case it must not be less than 1 week for every cm. of HYDROTHERM applied.

For applications of HYDROTHERM which exceed 4 cm. or if there are differences in surface type, embed an alkali-resistant fiberglass network in the reinforcement shaving.

Fields of use

HYDROTHERM may be used for interior and exterior plastering on surfaces like brick, rough concrete, plaster-port network, blocks, etc. provided these are free of dust, efflorescence, oils, fats and disarming. It may be used for both new construction and for the renovation of residential or industrial premises. Smooth concrete structures must first be primed with our own RG12. Due to its special formula, it is ideal for use on thermal insulation walls of lecablock, porous and alveolar bricks, mineral wood chipboard. HYDROTHERM should not be applied to gypsum, painted or crumbly and insubstantial surfaces.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a uniform surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered by a lung-screw machine with the HYDROTHERM plaster from Fornaci Calce Grigolin, dry premix based on hydraulic binders, polystyrene with a high degree of expansion, mineral aggregates and special additives which favor workability and grip, waterproofing agent which guarantees water repellence, at the rate indicated by the appropriate authority, based on the thermal evaluation of the objective.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Dry density | 280 kg/m ³ |
| Pot life | 20 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 9 lt./bag |
| Thermal conductivity λ | 0,09 W/mk (tabulated value) |
| Consumption | 4,5 m ² per 1 cm. thickness/ 50 lt. bag |
| Minimum application thickness | exterior > 40mm, interior > 20mm |
| Mechanical resistance to flexion at 28 days | > 0,3 N/mm ² |
| Mechanical resistance to compression at 28 days | > 0,5 N/mm ² |
| Water vapor permeability μ | 8 |
| Adhesion to brick | > 0,1 N/mm ² |
| Fracture type | A |
| Water absorption | W0 |
| Fire resistance | A1 class |

Disclaimers

Do not mix HYDROTHERM with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using HYDROTHERM when temperatures are below +5°C or above +30°C.



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plasters

FIBRE THERM

Waterproof fiber-reinforced thermal insulation background plaster for interiors and exteriors



Product description

Thermal insulation fiber-reinforced dry premix, according to UNI EN 998-1 based on sand from 0-1,2 mm according to EN 13139, polystyrene, hydraulic binder according to EN 197, aerial binder according to EN 459, water-repellent agent and special additives. The mechanical strength corresponds to the CS I group according to EN 998-1.

Supply and Storage

FIBRE THERM is supplied in 20 kg. bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

FIBRE THERM may be used for both new construction and for the renovation of residential or industrial premises; the product may be applied both manually or by mechanical projection. For mechanical application it is recommended to use a full blades blender with an auxiliary "turbo", "rotorquill" mixer or similar.

For the application, operate as follows: having positioned the corners and set the water mixture to obtain a mortar of appropriate consistency and plastic appearance, you may start working at a distance of about 15-20 cm in order to obtain a thickness of about 2 cm per coat. After a few minutes, even off with the aluminum level. On the product applied as described above, after about 24-48 hours, once the surface is firm, you should start "scraping" the surface by using an american spatula in order to remove the polystyrene which is not fully integrated and, at the same time, to prepare an optimal surface for the subsequent finish, which may be done in one of two ways:

- A) shaving, reinforcement, thickness 3-4 mm, to be performed after 4* weeks with products such as our own AG10 RASOTHERM or alternatively AG14 POLYFLEX and subsequent breathable colored finish, which should be done after 1 week, with our coatings of the arteMURI line based on silicates SIL4 INTO 0.7 ÷ 2.5 mm, on siloxane XIL2 INTO 0.7 ÷ 2.5 mm or on mineral GR 100-200-300;
- B) directly with breathable colored finish, 4-5 mm thick, to be performed no earlier than 4* weeks after the laying of FIBRE THERM, with our coatings of the arteMURI line based on silicates SIL4 INTO 0.7 ÷ 2.5 mm, on siloxane XIL2 INTO 0.7 ÷ 2.5 mm or on mineral GR 100-200-300.

*minimum drying period which may vary depending on weather conditions and in any case it must not be less than 1 week for every cm. of FIBRE THERM applied. The minimum application thickness will be of 2 cm.

Fields of use

FIBRE THERM is a high yield, fiber-reinforced, thermal insulation plaster which may be used for interior and exterior plastering on surfaces like brick, rough concrete, plaster-port network, blocks, etc. and interior and exterior substrates. FIBRE THERM is particularly suited for plastering high thermal resistance bricks like Poroton, porous bricks with λ values lower than 0.13 W/mK. Due to its special formula, it may also be used for plastering surfaces which require the application of plaster layers thicker than regular (> 2 cm.) Smooth concrete structures must first be primed with our own RG12 or, alternatively, prepared with AG12 RINFLEX in order to ensure subsequent grip. FIBRE THERM should not be applied to gypsum, painted or crumbly and insubstantial surfaces.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a uniform surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered by a lung-screw machine with the FIBRE THERM plaster from Fornaci Calce Grigolin, thermal insulation fiber-reinforced dry premix, according to UNI EN 998-1 based on sand from 0-1,2 mm according to EN 13139, polystyrene, hydraulic binder according to EN 197, aerial binder according to EN 459, water-repellent agent and special additives. The mechanical strength corresponds to the CS I group according to EN 998-1, at the rate indicated by the appropriate authority, based on the thermal evaluation of the objective.

Technical data according to the UNI EN 998-1 Standard

| | |
|--------------------------------------|---|
| Specific weight | 550 kg/m ³ determined in free fall |
| Maximum diameter | 1,2 mm |
| Water in the mix | cca. 60% / 12 lt. per bag |
| Water quantity for 20 kg. bag | 12 lt |
| Minimum application thickness | 2 cm |
| Consumption | 10,5 kg/m ² per thickness of 2 cm |
| Consumption for 40 lt. bag | 4 m ² x cm thickness |
| Mechanical resistance to flexion | 0,8 N/mm ² |
| Mechanical resistance to compression | 1,6 N/mm ² |
| Thermal conductivity λ | 0,13 W/mK (tabulated value) |
| Water vapor permeability μ | 10 |
| Adhesion to surface | > 0,1 N/mm ² |
| Fracture type | A |
| Water absorption | W0 |
| Fire resistance | A1 class |

Disclaimers

Do not mix FIBRE THERM with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using HYDROTHERM when temperatures are below +5°C or above +30°C. Protect skin and eyes from direct contact with the product. In case the product comes in direct contact with eyes, wash immediately and abundantly with fresh water and consult a physician.



plasters

GS 08

Background plaster based on gypsum, lime and perlite for indoor surfaces, dual-layer type



Product description

Dry premix based on selected inerts, gypsum, hydrated lime, special additives and perlite.

Supply and Storage

GS08 is supplied in bulk, with 22 m³ silo plant and in bags on pallets with stretch. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface preparation and Application

The surfaces to be plastered must be cleaned and any unstable parts, removed. For the application, operate as follows: Having positioned the corners, preferably with the same GS08, and having set the water mixture to obtain a mortar of appropriate consistency and plastic appearance, you may start working at a distance of about 15-20 cm in order to obtain a thickness of about 2-3 cm per coat. After a few minutes, even off with the aluminum level. The product thus applied, after about 2 hours, can be "scratched" and allows for the arrangement of angles for the subsequent finishing, after a one-day interval, with LG44 Z or LG55.

Fields of use

GS08 may be used for interior plastering on surfaces like brick, rough concrete, blocks and network port plaster. GS08 should not be used on exterior, painted or crumbly and insubstantial surfaces. Avoid at all costs the use in humid rooms for which it is recommended the use of products such as our own IG14, IGK14, FG12, FGK12.

Specifications

The interior surfaces to be plastered need to be clean, stable and must have homogeneous surfaces and a humidity less than 2.5%. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered, by means of machine with screw lung, with GS08 plaster from Fornaci Grigolin at a rate of 9 kg/m² for a thickness of 1 cm.

Technical data according to the UNI EN 13279-1 Standard

| | |
|---|--|
| Classification | B5-50-2 |
| Specific weight | 1050 kg/m ³ determinrd in free fall |
| Maximal diameter | 0,8 mm |
| Pot life | 30-40 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 38% |
| Consumption | 9 kg/m ² per 1 cm. thickness |
| Minimal application thickness | 0,7 cm |
| Mechanical resistance to flexion at 28 days | 1,3 N/mm ² |
| Mechanical resistance to compression at 28 days | 2,3 N/mm ² |
| Water vapor permeability μ | 5 |
| Fire resistance | A1 class |
| Adhesion to brick | 0,10 N/mm ² |
| Fracture type | A |
| Thermal conductivity λ | 0,32 W/mK (tabulated value) |

Disclaimers

Do not mix GS08 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Do not use GS08 when temperatures are below +5°C or above +30°C. Do not apply on surfaces having a humidity higher than 2.5%.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



plasters

GS 09

LA PIETRA DEL TARO

Gypsum-based background plaster



Product description

Dry premix based on selected inerts, gypsum, hydrated lime, special additives and perlite.

Supply and Storage

GS09 is supplied in bulk, with 22 m³ silo plant and in bags on pallets with stretch. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface preparation and Application

The surfaces to be plastered must be cleaned and any unstable parts, removed. For the application, operate as follows: Having positioned the corners, preferably with the same GS09, and having set the water mixture to obtain a mortar of appropriate consistency and plastic appearance, you may start working at a distance of about 15-20 cm in order to obtain a thickness of about 2-3 cm per coat. After a few minutes, even off with the aluminum level. The product thus applied, after about 2 hours, can be "scratched" and allows for the arrangement of angles for the subsequent finishing, after a one-day interval, with LG44 Z or LG55.

Fields of use

GS08 may be used for interior plastering on surfaces like brick, rough concrete,

blocks and network port plaster.

GS08 should not be used on exterior, painted or crumbly and insubstantial surfaces. Avoid at all costs the use in humid rooms for which it is recommended the use of products such as our own IG14, IGK14, FG12, FGK12. Ideally suited for applications whose thickness exceed that of regular cement-based plasters.

Specifications

The interior surfaces to be plastered need to be clean, stable and must have homogeneous surfaces and a humidity less than 2.5%. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered, by means of machine with screw lung, with GS09 plaster from Fornaci Grigolin at a rate of 9 kg/m² for a thickness of 1 cm.

Technical data according to the UNI EN 13279-1 Standard

| | |
|---|--|
| Classification | B5-50-2 |
| Specific weight | 900 kg/m ³ determinrd in free fall |
| Maximal diameter | 1,25 mm |
| Pot life | 30-40 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 37% |
| Consumption | 9 kg/m ² per 1 cm. thickness |
| Minimal application thickness | 0,7 cm |
| Mechanical resistance to flexion at 28 days | > 1 |
| Mechanical resistance to compression at 28 days | > 2 |
| Water vapor permeability μ | 8 |
| Adhesion to surface | 0,1 N/mm ² |
| Fracture type | A |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,32 W/m ² K (tabulated value) |

Disclaimers

Do not mix GS09 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Do not use GS09 when temperatures are below +5°C or above +30°C. Do not apply on surfaces having a humidity higher than 2.5%.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



plasters

RG 12

Adhesion-promoting plaster



Product description

Dry premix based on selected inerts, special binders and additives aimed at improving workability and grip.

Supply and Storage

RG12 is supplied in bulk, with 22 m³ silo plant and in bags on pallets with stretch. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface preparation and Application

Report to directions mentioned in "Specifications."

Fields of use

RG12 is used as an adhesion-promoter for indoor and outdoor smooth concrete surfaces prior to application of lime-based plasters and hydraulic binder. The application must be performed on surfaces free of dust, efflorescence, oils, fats and disarming. RG12 should not be applied to gypsum, painted or crumbly and insubstantial surfaces. Apply regular plaster after 24 hours.

Specifications

The surfaces to be plastered must be clean, stable and must not show signs of disarming. Particularly absorbent surfaces should be washed thoroughly several hours before application. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered either manually or by screw lung machine with RG12 plaster from Fornaci Calce Grigolin, dry premix based on selected inerts, hydraulic binders and special additives aimed at improving workability and grip, at a rate of 5 kg/m². The product should unevenly cover about 2/3 of the surface which should not be subsequently smoothed; the surface thus prepared will be covered with background plaster no later than 48 hours.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1550 kg/m ³ determined in free fall |
| Maximum diameter | 2 mm |
| Pot life | 60 min |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 21 % |
| Consumption | 5 kg/m ² |
| Mechanical resistance to flexion at 28 days | > 2 N/mm ² |
| Mechanical resistance to compression at 28 days | > 6 N/mm ² |
| Water vapor permeability μ | 11 |
| Adhesion to brick | 1,2 N/mm ² |
| Fracture type | A |
| Water absorption | W1 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,48 W/mK (tabulated value) |

Disclaimers

Do not mix RG12 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Do not use RG12 when temperatures are below +5°C or above +30°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



plasters

RG 15

Rough coat



Product description

Dry premix based on calcium-silicate inerts, special binders and additives aimed at improving workability and grip.

Supply and Storage

RG15 is supplied in bulk, with 22 m³ silo plant and in bags on pallets with stretch. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface preparation and Application

Report to directions mentioned in "Specifications."

Fields of use

RG15 is used as rough cast for interior and exterior surfaces like brick, block, etc. before the application of lime-based plasters and hydraulic binder. It is used in restoration work to homogenize the areas to be subsequently plastered with plasters like our own FG12, IG14, and so on. The application must be performed on surfaces free of dust, efflorescence, oils, fats. RG15 should not be applied to gypsum, inconsistent and brittle surfaces and on concrete surfaces, where we recommend the use of our RG12. The application must be made in a completely covering manner.

Specifications

The surfaces to be plastered should be clean and stable; particularly absorbent surfaces should be washed thoroughly several hours before application. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be covered either manually or by screw lung machine with RG15 Rough cast from Fornaci Calce Grigolin, dry premix based on calcium-silicate inerts, specific hydraulic binders and special additives aimed at improving workability and grip, at a rate of 7-8 kg/m². The product must cover the surface in a uniform manner with a thickness of 4-5 mm. The surface should not be subsequently smoothed.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|--|
| Specific weight | 1550 kg/m ³ determined in free fall |
| Maximum diameter | 2 mm |
| Pot life | 2 hours |
| Plastic withdrawal | Absent in standard termohygrometric conditions |
| Water in the mix | approx. 20% |
| Consumption | 7/8 kg/m ² |
| Mechanical resistance to flexion at 28 days | > 2 N/mm ² |
| Mechanical resistance to compression at 28 days | > 6 N/mm ² |
| Water vapor permeability μ | 9 |
| Adhesion to brick | 1,0 N/mm ² |
| Fracture type | A |
| Water absorption | W0 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.42 W/mk (tabulated value) |

Disclaimers

Do not mix RG15 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Do not use RG15 when temperatures are below +5°C or above +30°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



plasters

ZG 21

Waterproof background plaster for zoccolatura



Product description

Dry premix based on selected inerts, special binders, water proofing agent and additives aimed at improving workability and grip.

Supply and Storage

ZG21 is supplied in bags on pallets with stretch. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

Surface Preparation and Application

Areas affected by irregularities larger than 2 cm should be prepared at least 48 hours in advance with a filling of the same ZG21, avoiding the use of too much water during dough preparation, which might lead to a decrease in mechanical strength.

For the application, operate as follows: having positioned the paraspigoli, preferably with the same ZG21 and set the water mixture to obtain a mortar of consistent and plastic appearance, you may start working at a distance of about 20 cm in order to obtain a thickness of about 1-2 cm per coat.

After a few minutes, even off with the aluminum level.

In order to obtain an optimal surface area with a low absorbance, we recommend that you make the finishing without resorting to "scratching" the surface. Given the specific uses of the ZG21, it is recommended to complete the finishing with arteMURI mineral coatings, siloxane class XIL2 INTO 0.7 ÷ 2.5 mm or Acrylics class ONE COAT 0.7 ÷ 2.5 mm.

Fields of use

ZG21 is used as a background plaster

for zoccolatura work on interior and exterior surfaces like brick, block, etc. The application must always be executed on surfaces free of dust, efflorescence, oils, fats and disarming.

ZG21 should not be applied to gypsum, inconsistent and brittle surfaces. Due to its specific formulation, it may be applied directly on concrete surfaces. For use on particular areas, consult our technical service.

Specifications

The surfaces to be plastered must be clean, stable, and show no traces of disarming. Particularly absorbant surfaces must be thoroughly bathed a few hours before application. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered either manually or by a lung-screw machine with the ZG21 plaster from Fornaci Calce Grigolin, dry premix, special for zoccolatura work, based on selected inerts, special hydraulic binders, water-proofing agent and special additives for improving workability and grip, at a rate of 16-18 kg/m². The minimum application thickness will be of 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1550 kg/m ³ determined in free fall |
| Maximum diameter | 2 mm |
| Pot life | 2 hours |
| Plastic withdrawal | Absent in standard termohygro-metric conditions |
| Water in the mix | approx. 20% |
| Consumption (1 cm. of thickness) | 16-18 kg/m ² |
| Mechanical resistance to flexion at 28 days | > 4 N/mm ² |
| Mechanical resistance to compression at 28 days | > 12 N/mm ² |
| Water vapor permeability μ | 20 |
| Adhesion to brick | 1,2 N/mm ² |
| Fracture type | A |
| Water absorbtion | W2 |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,73 W/mK (tabulated value) |

Disclaimers

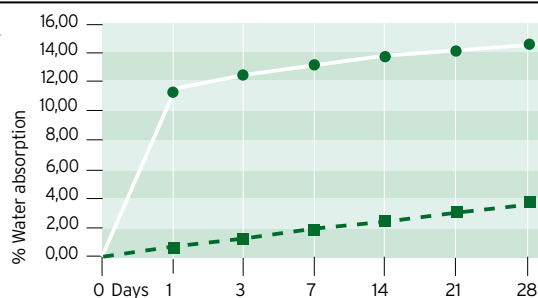
Do not mix ZG21 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Do not use ZG21 when temperatures are below +5°C or above +30°C. All decorations, paintings or similar must be applied after the complete seasoning of the product.

Table A
Water quantity absorbed by ZG 21 (%)

| Interval in days | Weight variation in % |
|------------------|-----------------------|
| 0 | 0,00 |
| 1 | 0,70 |
| 3 | 1,40 |
| 7 | 1,80 |
| 14 | 2,60 |
| 21 | 3,10 |
| 28 | 3,40 |

Table B Water quantity absorbed by a normal concrete based on lime cement (%)

| Interval in days | Weight variation in % |
|------------------|-----------------------|
| 0 | 0,00 |
| 1 | 10,80 |
| 3 | 12,20 |
| 7 | 13,10 |
| 14 | 13,40 |
| 21 | 13,80 |
| 28 | 14,20 |



plasters light concrete

BF 01-05

Light concrete line



Product description

Dry premix based on selected inerts in an adequately reconstructed grading curve, special hydraulic binders, water-reducing additives and pumping promoters which finds use in the execution of: plastering, renovation, general consolidation works and production of precast floors and other items.

Supply and Storage

All products of the BF LINE are supplied in bulk, with 22 m³ silo plant and in bags on pallets with stretch. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

BF 01

Dry premix based on selected inerts in an adequately reconstructed grading curve from 0 to 3 mm, hydraulic binder type II - A/LL 32.5 R a dose > 350 (*) kg/m³ and pumping promoters additives. Suitable for plastering, restoration and general consolidation work.

BF 02

Dry premix based on selected inerts, hydraulic binder type II - A/LL 32.5 R hydrated lime and special additives. Suitable for plastering, restoration and general consolidation work.

BF 03

Dry premix based on selected inerts in an adequately reconstructed grading curve from 0 to 3 mm, hydraulic binder type II - A/LL 42.5 R a dose > 500 (*) kg/m³ and pumping promoters additives. Suitable for restoration, micropiles and general consolidation work.

BF 04

Dry premix based on selected inerts in an adequately reconstructed grading curve from 0 to 3 mm, hydraulic binder type II - A/LL 32.5 R a dose > 580 (*) kg/m³ and pumping promoters additives. Suitable for restoration, micropiles and general consolidation work.

BF 05

Dry premix based on selected inerts in an adequately reconstructed grading curve from 0 to 3 mm, pozzolanic hydraulic binder a dose > 580 (*) kg/m³ and pumping promoters additives. Suitable for restoration, micropiles and general consolidation work.

Given the uses for which these products are destined, it is recommended that you consult our technical service.

*this dosage refers to the material mixed with the lowest percentage of water specified in the technical file.

Technical data according to the UNI EN 998-1 Standard

| | BF 01 | BF 02 | BF 03 | BF 04 | BF 05 |
|---|----------|----------|----------|----------|----------|
| Maximum diameter | 3 | 2 | 3 | 3 | 3 |
| Water in the mix % | 16÷18 | 18÷20 | 16÷18 | 15÷17 | 16÷18 |
| Consumption kg/m² | 19 | 19 | 19 | 19 | 19 |
| Mechanical resistance to flexion at 28 days | > 4,5 | > 4,5 | > 7 | > 6 | > 6 |
| Mechanical resistance to compression at 28 days N/mm² | > 15 | > 12 | > 45 | > 28 | > 32 |
| Water vapor permeability μ | 15 | 14 | 15 | 15 | 15 |
| Water absorption | W0 | W0 | W0 | W0 | W0 |
| Fire resistance | A1 class | A1 class | A1 class | A1 class | A1 class |
| Adhesion to brick N/mm² | 1,1 | 1,1 | 1,4 | 1,3 | 1,4 |
| Fracture type | A | A | A | A | A |
| Thermal conductivity (tabulated value) W/mK | 0,90 | 0,68 | 1,22 | 1,22 | > 1,22 |

Disclaimers

Do not mix the products of the BF LINE with other substances. Avoid extreme changes in heat while hardening. The products must be protected from frost and rapid drying. Do not use the products when temperatures are below +5°C or above +30°C. For larger surfaces, it is recommended to use splitting joints. All decorations, paintings or similar must be applied after the complete seasoning of the product. For thicker applications, wait 7-10 days for each additional cm. of applied product.



plasters light concrete

BF 06-10

Light concrete line



Product description

Dry premix based on selected inerts in an adequately reconstructed grading curve, special hydraulic binders, water-reducing additives and pumping promoters which finds use in the execution of: plastering, micropiles, renovation, general consolidation works and production of precast floors and other items.

Supply and Storage

All products of the BF-BG LINE are supplied in bulk, with 22 m³ silo plant and in bags on pallets with stretch. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

BF 06

Dry premix based on selected inerts in an adequately reconstructed grading curve from 0 to 3 mm, hydraulic binder type II - A/LL 42.5 R a dose > 600 (*) kg/m³ and pumping promoters additives. Suitable for restoration, micropiles and general consolidation work.

BF 07

Dry premix based on selected inerts in an adequately reconstructed grading curve from 0 to 3 mm, hydraulic binder type II - A/LL 42.5 R a dose > 800 (*) kg/m³ and pumping promoters additives. Suitable for micropiles and general consolidation work.

BF 08

Dry premix based on selected inerts in an adequately reconstructed grading curve from 0 to 3 mm, pozzolanic hydraulic binder a dose > 800 (*) kg/m³ and pumping promoters additives. Suitable for micropiles and general consolidation work.

BF 09

Dry premix based on selected inerts in an adequately reconstructed grading curve from 0 to 3 mm, hydraulic binder type II - A/LL 32.5 R a dose > 400 (*) kg/m³ and pumping promoters additives. Suitable for plastering and general consolidation work.

BF 10

Dry premix based on selected inerts in an adequately reconstructed grading curve from 0 to 3 mm, hydraulic binder type II - A/LL 32.5 R a dose > 250 (*) kg/m³ and pumping promoters and water reduction additives. Suitable for plastering and general consolidation work.

Given the uses for which these products are destined, it is recommended that you consult our technical service.

*this dosage refers to the material mixed with the lowest percentage of water specified in the technical file.

Technical data according to the UNI EN 998-1 Standard

| | BF 06 | BF 07 | BF 08 | BF 09 | BF 10 |
|---|---------|---------|---------|---------|---------|
| Maximum diameter | 3 | 3 | 3 | 3 | 3 |
| Water in the mix % | 16÷18 | 19÷20 | 19÷20 | 16÷18 | 16÷18 |
| Consumption kg/m ² | 19 | 19 | 19 | 19 | 19 |
| Mechanical resistance to flexion at 28 days | > 6 | > 7,5 | > 8 | > 5,5 | > 3,5 |
| Mechanical resistance to compression at 28 days N/mm ² | > 32 | > 48 | > 50 | > 20 | > 12 |
| Water vapor permeability μ | 15 | 15 | 15 | 15 | 15 |
| Water absorption | W0 | W0 | W0 | W0 | W0 |
| Fire resistance | A1class | A1class | A1class | A1class | A1class |
| Adhesion to brick N/mm ² | 1,4 | 1,4 | 1,4 | 1,4 | 1,3 |
| Fracture type | A | A | A | A | A |
| Thermal conductivity (tabulated value) W/mK | 0,90 | > 1,22 | > 1,22 | > 1,22 | > 1,22 |

Disclaimers

Do not mix the products of the BF-BG LINE with other substances. Avoid extreme changes in heat while hardening. The products must be protected from frost and rapid drying. Do not use the products when temperatures are below +5°C or above +30°C. For larger surfaces, it is recommended to use splitting joints. All decorations, paintings or similar must be applied after the complete seasoning of the product. For thicker applications, wait 7-10 days for each additional cm. of applied product.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



plasters light concrete

BF 11-12 BFAST BG 300 BF 16

Light concrete line



Product description

Dry premix based on selected inerts in an adequately reconstructed grading curve, special hydraulic binders, water-reducing additives and pumping promoters which finds use in the execution of: plastering, micropiles, renovation, general consolidation works and production of precast floors and other items.

Supply and Storage

All products of the BF-BG LINE are supplied in bulk, with 22 m³ silo plant and in bags on pallets with stretch. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before the expiry date stamped on the bag.

BF 11

Dry premix based on selected inerts in an adequately reconstructed grading curve from 0 to 3 mm, hydraulic binder type II - A/LL 32.5 R a dose > 600 (*) kg/m³, polypropylene fibers and pumping promoters and water reduction additives. Suitable for plastering, restoration and general consolidation work.

BF 12

Dry premix based on selected inerts in an adequately reconstructed grading curve from 0 to 3 mm, hydraulic binder type II - A/LL 32.5 R a dose > 600 (*) kg/m³ and pumping promoters and water reduction additives. Suitable for plastering, restoration, micropiles and general consolidation work.

BFAST

Fast curing, dry premix based on selected inerts in an adequately reconstructed grading curve from 0 to 3 mm, a mix of special hydraulic binders > 600 (*) kg/m³, accelerant additives and pumping promoters. Suitable for restoration and general consolidation work.

BG 300

Dry premix based on selected inerts in an adequately reconstructed grading curve from 0 to 4 mm, hydraulic binder type II - A/LL 42.5 R a dose > 500 (*) kg/m³ and fluidifying anti-shrinkage additives. Suitable for production of precast floors and other items.

BF 16

Dry premix based on calcium-silicate inerts in an adequately reconstructed grading curve from 0 to 3 mm, poz-zolanic hydraulic binder > 600 (*) kg/m³ and pumping promoters. Suitable for plastering, restoration, micropiles and general consolidation work.

Given the uses for which these products are destined, it is recommended that you consult our technical service.

* this dosage refers to the material mixed with the lowest percentage of water specified in the technical file.

Technical data according to the UNI EN 998-1 Standard

| | BF 11 | BF 12 | BFAST | BG300 | BF 16 |
|---|---------|---------|---------|---------------|---------|
| Maximum diameter | 3 | 3 | 3 | 4 | 3 |
| Water in the mix % | 15÷17 | 14 | 16÷18 | 16÷18 | 16÷18 |
| Consumption kg/m ² | 19 | 19 | 19 | 3,5 kg/m lin. | 19 |
| Mechanical resistance to flexion at 28 days | > 6,5 | > 9 | > 7 | > 7 | > 7 |
| Mechanical resistance to compression at 28 days N/mm ² | > 32 | > 40 | > 40 | > 40 | > 38 |
| Water vapor permeability μ | 15 | 15 | 15 | 15 | 15 |
| Water absorption | W0 | W0 | W0 | W0 | W0 |
| Fire resistance | A1class | A1class | A1class | A1class | A1class |
| Adhesion to brick N/mm ² | 1,3 | 1,3 | 1,4 | 1,4 | 1,3 |
| Fracture type | A | A | A | A | A |
| Thermal conductivity (tabulated value) W/mK | > 1,22 | > 1,22 | > 1,22 | > 1,22 | > 1,22 |

Disclaimers

Do not mix the products of the BF-BG LINE with other substances. Avoid extreme changes in heat while hardening. The products must be protected from frost and rapid drying. Do not use the products when temperatures are below +5°C or above +30°C. For larger surfaces, it is recommended to use splitting joints. All decorations, paintings or similar must be applied after the complete seasoning of the product. For thicker applications, wait 7-10 days for each additional cm. of applied product.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.





grigotherm

INSULATING PANELS

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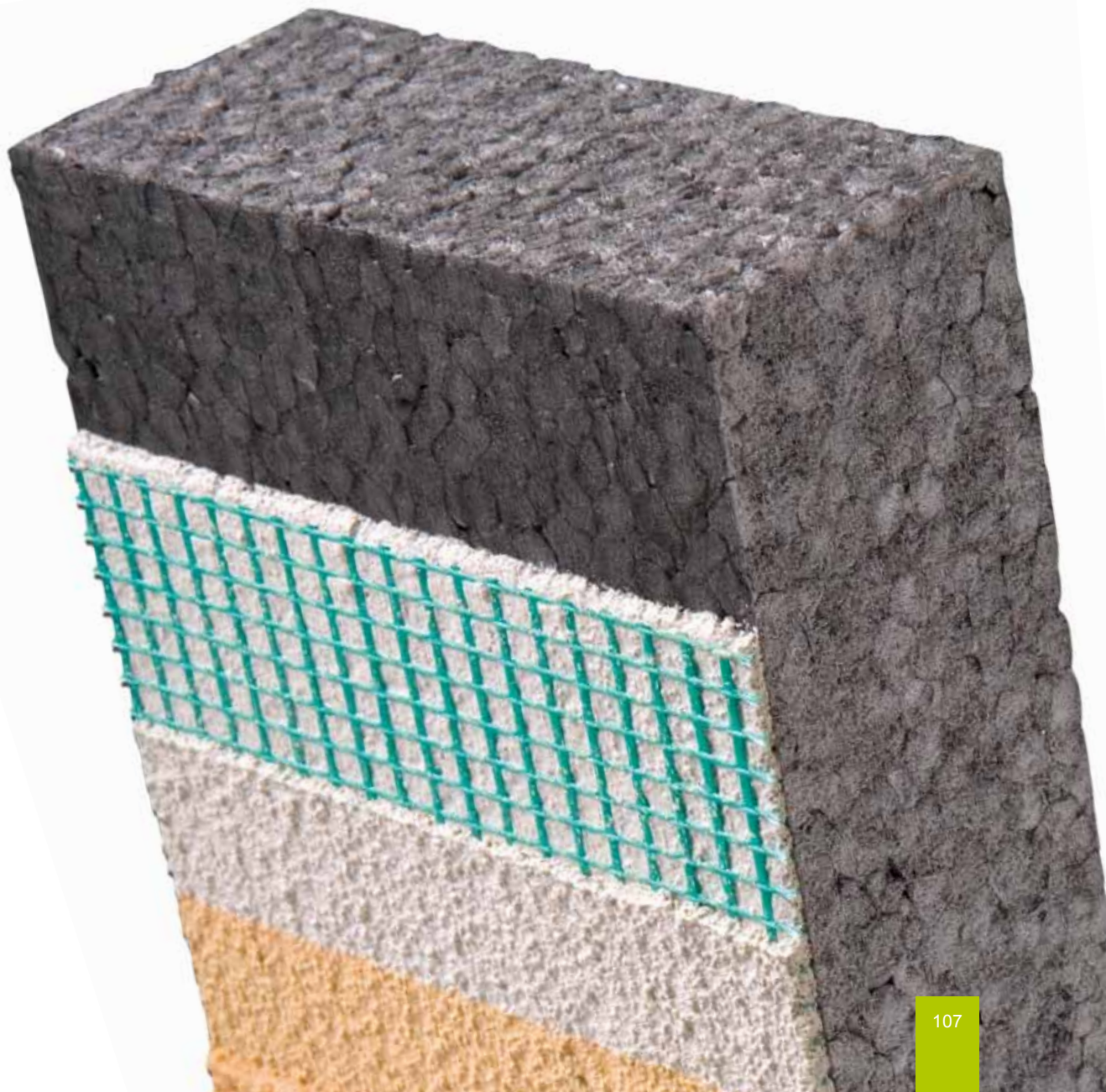
ACCESSORIES

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grigotherm

An effective thermal insulation coat is valuable as a source of alternative energy, as it may produce benefits both in economic terms, with a reduction of costs associated to heating and cooling, as well as in environmental terms, giving high thermal efficiency to the building where it is applied. For these reasons, Fornaci Calce Grigolin has developed different packages of insulation coatings in the "Grigolin Wärmedämmverbundsystem" GRIGOTHERM line to reduce heat loss.

Thanks to versatility of application and strong modularity of components, the GRIGOTHERM line is used on any exterior wall of classic modern and rustic buildings and various other types of destinations. It may also be advantageously applied in all interventions on both new constructions and renovations of already existing buildings.



GRIGOEPS 80-100-120

Insulating panel made of synthesised expanded polystyrene for coating systems
Available in 80-100-120 class



Product description

Insulating panel made of synthesised expanded polystyrene, derived from seasoned block with recycled-free raw materials, with CE marking, UNI IIP conformity marking, self-extinguishing and in compliance with the UNI EN 13163 standard for ETICS systems available according to ETAG 004.

Supply and Storage

The synthesised expanded polystyrene panels are supplied in parcels, on pallets with stretch, packed in transparent plastic, with custom logo Fornaci Calce Grigolin. Store in a cool and dry place, protected from direct sunlight. Keep packaging intact.

Surface Preparation and Application

For the conditions of application, ask for our application booklet.

Fields of use

The synthesised expanded polystyrene panel GRIGOEPS is suitable for thermal insulation coatings, both on new buildings and for renovations of existing ones.

Specifications

Thermal insulation coating made of expanded polystyrene panels of the 80/100/120 class, type GRIGOEPS 80/100/120, in compliance with the UNI EN 13163 standard, with CE marking. The panel has a thermal conductivity of 0.038/0.035/0.034 W/mK, a fire resistance in Euroclass E, a compressive strength > 80/100/120 kPa, a resistance to vapor diffusion $\mu < 40/70/70$.

1. The insulation panels should be laid onto a profile starting off from ground level, that will serve to align and hold the panels to the surface.

For the zoccolatura, it is good practice to use extruded panels or printed expanded polystyrene up to a height of approximately 30 cm., waterproofed with Galileo Grigoflex from Fornaci Calce Grigolin. Make sure that the walls are mechanically resistant, clean and free of dirt, oils or disarming. Check that the underlying coatings

have sufficient grip, otherwise remove the degraded and/or brittle areas through brushing and apply an adhesion promoter on the clean, dry surface like PRG101 from the arteMURI line and wait 24 hours before gluing the insulation panels.

2. The panels will be glued to the false support, perfectly combined in a bubble with a glue like the AC07-AC08 Isolflex/AC16 Uniras/AC20 Unilight from Fornaci Calce Grigolin.

3. After about 24 hours from installation of the panels, proceed to anchoring them by using 6 ETA-certified screws per sqm., type Grigofix NTK U/STR U/NT U/ST U from Fornaci Calce Grigolin.

4. Onto the insulation panels, apply, after at least 72 hours from installation, a layer of skim plaster by using an adhesive like the AC07-AC08 Isolflex/AC16 Uniras/AC18 Rasolight/AC20 Unilight from Fornaci Calce Grigolin.

In the skim plaster layer, embed an alkali resistant fiberglass mesh weighing 160 gr./sqm., 4 x 4 mm., overlapped laterally by at least 10 cm. Apply lateral mesh stripes even also the corners of all openings to prevent cracks. The corners will be protected by PVC corners with preassembled mesh of various sizes. The skim plastering should have a final thickness of at least 4 mm. and a curing time of about 14 days.

5. The finishing coat will be composed of a siloxane coating, a first background layer of primer like the PRIMER UNI KO-GM or siloxane background F2 COPRENTE and a siloxane intonachino plaster finish, like the XIL2 INTO, recommended particle size 1.5 mm. or the intonachino plaster finish DUE SI, always from the arteMURI line from Fornaci Calce Grigolin, applied after 24 hours after the primer. Apply the intonachino with a stainless steel spatula finish it with a plastic or sponge float.

Alternatively, use an acrylic coating like the ONE COAT or the PRIMER UNI KO-GM or PRIMER or an intonachino plaster finish like the SIL4 INTO with the PRIMER UNI-KO GM or COPRISIL 4, always from the arteMURI line.

Avoid the use of dark paints with a brightness index Y<25.

Technical data

| | 80 CLASS | 100 CLASS | 120 CLASS |
|--|---------------|---------------|---------------|
| Size | 1000 x 500 mm | 1000 x 500 mm | 1000 x 500 mm |
| Available thickness | mm variable | mm variable | mm variable |
| Thermal conductivity 10°C (λ) | 0,038 W/mK | 0,035 W/mK | 0,034 W/mK |
| Resistance to compression with 10% elastic deformation | ≥80 kPa | ≥100 kPa | ≥120 kPa |
| Permeability to water vapor | μ <40 | μ <70 | μ <70 |
| Fire resistance | E Euroclass | E Euroclass | E Euroclass |
| Tolerance in length | ±2 mm | ±2 mm | ±2 mm |
| Tolerance in width | ±2 mm | ±2 mm | ±2 mm |
| Tolerance in thickness | ±1 mm | ±1 mm | ±1 mm |
| Tolerance in surface | ±5 mm | ±5 mm | ±5 mm |

Disclaimers

Do not use the product in contact with heat sources at temperatures higher than +80°C. Any exposure may alter the physical and technical characteristics of the panel.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

grigothem insulating panels

GRIGOPRESS BIANCO

Insulating panel made of white color,
printed, expanded polystyrene for
coating systems
Available in 100-150 class



ETA
05/0196



Product description

Insulating panel made of printed, expanded polystyrene, self-extinguishing, with CE marking and in compliance with the UNI EN 13163 standard for ETICS systems, vapor-synthesised, with closed cells, flame-retardant, wafered areas to favor adhesive grip and pre-made cuts to compensate for the thermal expansion and stress acting on the system.

Supply and Storage

The printed expanded polystyrene panels are supplied in parcels, on pallets with stretch, packed in transparent plastic, with custom logo Fornaci Calce Grigolin. Store in a cool and dry place, protected from direct sunlight. Keep packaging intact.

Surface Preparation and Application

For the conditions of application, ask for our application booklet.

Fields of use

The synthesised expanded polystyrene panel GRIGOPRESS WHITE is suitable for thermal insulation coatings, both on new buildings and for renovations of existing ones. On the inner side, the panel presents relief parts: a frame around the perimeter and indicators which show the proper place for positioning the glue. Ideal for zoccolature in coating insulation systems due to its low water absorption.

Specifications

Thermal insulation coating from printed panels made of white expanded polystyrene of the 100/150 class, type GRIGOPRESS WHITE 100/150, in compliance with the UNI EN 13163 standard, with CE marking.

The panel measures 1200x600 cm., it has a thermal conductivity of 0.036/0.035 W/mK, a fire resistance in Euroclass E, a compressive strength > 100/150 kPa, a resistance to vapor diffusion $\mu < 70$.

1. The insulation panels should be laid onto a profile starting off from ground level, that will serve to align and hold the panels to the surface.

For the zoccolatura, it is good practice to use extruded panels or printed expanded polystyrene up to a height of approximately 30 cm., waterproofed with Galileo Grigoflex from Fornaci Calce Grigolin.

Make sure that the walls are mechanically resistant, clean and free of dirt, oils or disarming. Check that the underlying coatings have sufficient grip, otherwise remove the degraded and/or brittle areas through brushing and apply and adhesion promoter on the clean, dry surface like PRG101 from the arteMURI line and wait 24 hours before gluing the insulation panels.

2. The panels will be glued to the false support, perfectly combined in a bubble with a glue like the AC07-AC08 Isoflex/AC16 Uniras/AC20 Unilight from Fornaci Calce Grigolin.

3. After about 24 hours from installation of the panels, proceed to anchoring them by using 6 ETA-certified screws per sqm., type Grigofix NTK U/STR U/NT U/ST U from Fornaci Calce Grigolin.

4. Onto the insulation panels, apply, after at least 72 hours from installation, a layer of skim plaster by using an adhesive like the AC07-AC08 Isoflex/AC16 Uniras/AC18 Rasolight/AC20 Unilight from Fornaci Calce Grigolin.

In the skim plaster layer, embed an alkali resistant fiberglass mesh weighing 160 gr./sqm., 4 x 4 mm., overlapped laterally by at least 10 cm. Apply lateral mesh stripes even also the corners of all openings to prevent cracks. The corners will be protected by PVC corners with preassembled mesh of various sizes. The skim plastering should have a final thickness of at least 4 mm. and a curing time of about 14 days.

5. The finishing coat will be composed of a siloxane coating, a first background layer of primer like the PRIMER UNI KO-GM or siloxane background F2 COPRENTE and a siloxane intonachino plaster finish, like the XIL2 INTO, recommended particle size 1.5 mm. or the intonachino plaster finish DUE SI, always from the arteMURI line from Fornaci Calce Grigolin, applied after 24 hours after the primer. Apply the intonachino with a stainless steel spatula finish it with a plastic or sponge float.

Alternatively, use an acrylic coating like the ONE COAT or the PRIMER UNI KO-GM or PRIMER or an intonachino plaster finish like the SIL4 INTO with the PRIMER UNI-KO GM or COPRISIL 4, always from the arteMURI line.

Avoid the use of dark paints with an brightness index Y<25.

Technical data

| | 100 CLASS | 150 CLASS |
|--|------------------|------------------|
| Size | 1200 x 600 mm | 1200 x 600 mm |
| Available thickness | 60-80-100-120 mm | 60-80-100-120 mm |
| Thermal conductivity 10°C (λ) | 0,036 W/mK | 0,035 W/mK |
| Resistance to compression with 10% elastic deformation | ≥ 100 kPa | ≥ 150 kPa |
| Permeability to water vapor | $\mu < 70$ | $\mu < 70$ |
| Fire resistance | E Euroclass | E Euroclass |
| Tolerance in length | ± 2 mm | ± 2 mm |
| Tolerance in width | ± 2 mm | ± 2 mm |
| Tolerance in thickness | ± 1 mm | ± 1 mm |
| Tolerance in surface | ± 5 mm | ± 5 mm |

Disclaimers

Do not use the product in contact with heat sources at temperatures higher than +80°C. Any exposure may alter the physical and technical characteristics of the panel.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

GRIGOSUN

Pannello isolante in polistirene espanso stampato arricchito di grafite per sistemi a cappotto con protezione superficiale dai raggi solari

Disponibile in classe 100



Descrizione del prodotto

Pannello in polistirene espanso stampato, arricchito di grafite, autoestinguente, con marcatura CE e conforme alla norma UNI EN 13163 per sistemi ETICS, sinterizzato a vapore, a celle chiuse, ritardante di fiamma, aree waferate per favorire l'aggrappaggio dei collanti e pre-tagli per contenere le dilatazioni e le sollecitazioni termiche cui è sottoposto il sistema garantendo anche una perfetta planarità. Il pannello presenta uno strato esterno di colore verde chiaro a protezione dei raggi solari.

Fornitura e stoccaggio

I pannelli in polistirene espanso stampati GRIGOSUN vengono forniti in pacchi su pallet con estensibile con imballo in plastica trasparente personalizzati con logo Fornaci Calce Grigolin. Stoccare all'asciutto. Mantenere integro l'imballo.

Preparazione supporti e modalità di applicazione

Per le modalità di applicazione richiedete il nostro libretto applicativo.

Campi di impiego

Il pannello in polistirene espanso stampato GRIGOSUN si presta per lavori di isolamento termico a cappotto, sia in edifici nuovi che per risanamenti di esistenti. Il pannello presenta sul lato interno delle parti in rilievo: una cornice lungo il perimetro e zone all'interno indicanti il corretto posizionamento del collante. Ideale anche per le zoccolature nei sistemi d'isolamento a cappotto grazie al suo ridotto assorbimento d'acqua.

Voci di capitolato

Isolamento termico a cappotto composto da pannelli stampati in polistirene espanso arricchiti di grafite con strato verde chiaro protettivo in classe 100 tipo GRIGOSUN conformi alla norma UNI EN 13163 con marchio CE. Il pannello ha una dimensione di 1200 x 600 mm, una conducibilità termica di 0,031/0,032 W/mK (a seconda dello spessore), una resistenza al fuoco in Euroclasse E, una resistenza alla compressione > 100 kPa, una resistenza alla diffusione del vapore $\mu < 70$.

1. I pannelli isolanti saranno posati tramite un profilo di partenza staccato da terra che avrà la funzione di allineare e contenere i pannelli al supporto.

È buona norma per la zoccolatura rivestire i pannelli per circa un'altezza di 30 cm con

un impermeabilizzante tipo Galileo Grigoflex di Fornaci Calce Grigolin. Assicurarsi che le pareti siano meccanicamente resistenti, pulite e prive di sporco, oli o disarmenti. Controllare che i rivestimenti sottostanti siano ben aderenti, altrimenti asportare le zone degradate e/o esfoliate tramite spazzatura e applicare sulla superficie asciutta e pulita un fondo aggrappante tipo PRG 101 della linea arteMURI e attendere 24 ore prima dell'incollaggio dei pannelli isolanti.

2. I pannelli verranno incollati al supporto sfalsati, perfettamente accostati e in bolla con un collante tipo AC 07-AC 08 Isolflex/AC 16 Uniras/AC 20 Unilight di Fornaci Calce Grigolin.

3. Dopo circa 24 ore dalla posa dei pannelli si può procedere alla tassellatura utilizzando 6 chiodi termoisolanti certificati ETA per mq di tipo Grigofix NTK U/STR U/NT U/SDM T Plus di Fornaci Calce Grigolin.

4. Sui pannelli isolanti sarà applicato, a distanza di almeno 72 ore dalla posa, uno strato di rasatura eseguita con un collante bianco tipo AC 08 Isolflex/AC 16 Uniras/AC 18 Rasolight /AC 20 Unilight di Fornaci Calce Grigolin.

Nella rasatura sarà annegata la rete in fibra di vetro alcali resistente del peso di 160 gr/m² maglia 4 x 4 mm sovrapposta lateralmente di almeno 10 cm. Prevedere delle strisce di rete laterali anche negli angoli di tutte le aperture per evitare possibili fessurazioni. Gli spigoli saranno protetti con relativi paraspigoli in PVC con rete premontata di diverse misure. La rasatura dovrà avere uno spessore finale di almeno 4 mm.

5. Lo strato di finitura sarà costituito da un rivestimento ai silossanici, una prima mano di fondo di preparazione tipo PRIMER UNI-KO GM o il fondo F2 COPRENTE della linea arteMURI e un intonachino silossanico, tipo XIL2 INTO granulometria consigliata 1,5 mm o l'intonachino DUE SI sempre della linea arteMURI di Fornaci Calce Grigolin applicato dopo 24 ore dal fondo. Applicare l'intonachino con spatola inox e rifinirlo con frattazzo in plastica o spugna. In alternativa utilizzare un rivestimento acrilico tipo ONE COAT con il fondo PRIMER UNI-KO GM o il fondo PRIMO o un intonachino ai silicati tipo SIL4 INTO con il fondo PRIMER UNI-KO GM o il fondo COPRISIL 4 sempre della linea arteMURI. Evitare l'utilizzo di tinte scure con un indice di luminosità Y < 25.

Dati tecnici

| | |
|--|------------------|
| Dimensioni | 1200 x 600mm |
| Spessore disponibile | 60-80-100-120 mm |
| Conducibilità termica 10° C (Per lo spessore 120 mm)* | 0,031 W/mK |
| Resistenza alla compressione con deformazione elastica del 10% | ≥100 kPa |
| Permeabilità al vapore acqueo | μ 30-70 |
| Reazione al fuoco | Euroclasse E |
| Tolleranza sulla lunghezza | ± 2 mm |
| Tolleranza sulla larghezza | ± 2 mm |
| Tolleranza sullo spessore | ± 1 mm |
| Tolleranza sulla planarità | ± 5 mm |
| Assorbimento d'acqua a lungo periodo | < 2% |

* La conducibilità termica varia da 0,031 W/mK a 0,032 W/mK per i pannelli con spessore 60-80-100 mm

Avvertenze

Si consiglia di non utilizzare il prodotto a contatto con sorgenti di calore a temperature maggiori di + 80°C. L'eventuale esposizione può alterare le caratteristiche fisico-tecniche del pannello.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

grigothem insulating panels

GRIGOGRAF 70-100

Insulating panel made of synthesised expanded polystyrene, enriched with graphite, for coating systems
Available in 70-100 class



ETA
05/0196



Product description

Insulating panel made of synthesised expanded polystyrene, enriched with graphite, derived from seasoned block with recycled-free raw materials, with CE marking, UNI IIP conformity marking, self-extinguishing and in compliance with the UNI EN 13163 standard for ETICS systems available according to ETAG 004.

Supply and Storage

The synthesised expanded polystyrene panels enriched with graphite are supplied in parcels, on pallets with stretch, packed in transparent plastic, with custom logo Fornaci Calce Grigolin. Store in a cool and dry place, protected from direct sunlight. Keep packaging intact.

Surface Preparation and Application

For the conditions of application, ask for our application booklet.

Fields of use

The synthesised expanded polystyrene panel enriched with graphite GRIGOGRAF is suitable for thermal insulation coatings, both on new buildings and for renovations of existing ones.

Specifications

Thermal insulation coating from printed panels made of white expanded polystyrene enriched with graphite of the 70/100 class, type GRIGOGRAF 70/100, in compliance with the UNI EN 13163 standard, with CE marking.

The panel has a thermal conductivity of 0.032/0.031 W/mK, a fire resistance in Euroclass E, a compressive strength >70/100 kPa, a resistance to vapor diffusion $\mu < 40/70$.

1. The insulation panels should be laid onto a profile starting off from ground level, that will serve to align and hold the panels to the surface.

For the zoccolatura, it is good practice to use extruded panels or printed expanded polystyrene up to a height of approximately 30 cm., waterproofed with Galileo Grigoflex from Fornaci Calce Grigolin. Make sure that the walls are mechanically resistant, clean and free of dirt, oils or

disarming. Check that the underlying coatings have sufficient grip, otherwise remove the degraded and/or brittle areas through brushing and apply and adhesion promoter on the clean, dry surface like PRG101 from the arteMURI line and wait 24 hours before gluing the insulation panels.

2. The panels will be glued to the false support, perfectly combined in a bubble with a glue like the AC07-AC08 Isolflex/AC16 Uniras/AC20 Unilight from Fornaci Calce Grigolin.

3. After about 24 hours from installation of the panels, proceed to anchoring them by using 6 ETA-certified screws per sqm., type Grigofix NTK U/STR U/NT U/ST U from Fornaci Calce Grigolin.

4. Onto the insulation panels, apply, after at least 72 hours from installation, a layer of skim plaster by using an adhesive like the AC07-AC08 Isolflex/AC16 Uniras/AC18 Rasolight/AC20 Unilight from Fornaci Calce Grigolin.

In the skim plaster layer, embed an alkali resistant fiberglass mesh weighing 160 gr./sqm., 4 x 4 mm., overlapped laterally by at least 10 cm. Apply lateral mesh stripes even also the corners of all openings to prevent cracks. The corners will be protected by PVC corners with preassembled mesh of various sizes. The skim plastering should have a final thickness of at least 4 mm. and a curing time of about 14 days.

5. The finishing coat will be composed of a siloxane coating, a first background layer of primer like the PRIMER UNI KO-GM or siloxane background F2 COPRENTE and a siloxane intonachino plaster finish, like the XIL2 INTO, recommended particle size 1.5 mm. or the intonachino plaster finish DUE SI, always from the arteMURI line from Fornaci Calce Grigolin, applied after 24 hours after the primer. Apply the intonachino with a stainless steel spatula finish it with a plastic or sponge float.

Alternatively, use an acrylic coating like the ONE COAT or the PRIMER UNI KO-GM or PRIMER or an intonachino plaster finish like the SIL4 INTO with the PRIMER UNI-KO GM or COPRISIL 4, always from the arteMURI line.

Avoid the use of dark paints with an brightness index Y<25.

Technical data

| | 70 CLASS | 100 CLASS |
|--|---------------|----------------|
| Size | 1000 x 500 mm | 1000 x 500 mm |
| Available thickness | mm variable | mm variable |
| Thermal conductivity 10°C (λ) | 0,032 W/mK | 0,031 W/mK |
| Resistance to compression with 10% elastic deformation | ≥ 70 kPa | ≥ 100 kPa |
| Permeability to water vapor | $\mu < 40$ | $\mu < 70$ |
| Fire resistance | E Euroclass | E Euroclass |
| Tolerance in length | ± 2 mm | ± 2 mm |
| Tolerance in width | ± 2 mm | ± 2 mm |
| Tolerance in thickness | ± 1 mm | ± 1 mm |
| Tolerance in surface | ± 5 mm | ± 5 mm |

Disclaimers

Do not use the product in contact with heat sources at temperatures higher than +80°C. Any exposure may alter the physical and technical characteristics of the panel.

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grigothem insulating panels

GRIGOPRESS NERO

Insulating panel made of printed, expanded, graphite enriched polystyrene for coating systems
Available in 100 class



Product description

Insulating panel made of printed, expanded, graphite enriched polystyrene, self-extinguishing, with CE marking and in compliance with the UNI EN 13163 standard for ETICS systems, vapor-synthesised, with closed cells, flame-retardant, wafered areas to favor adhesive grip and pre-made cuts to compensate for the thermal expansion and stress acting on the system.

Supply and Storage

The printed expanded polystyrene panels are supplied in parcels, on pallets with stretch, packed in transparent plastic, with custom logo Fornaci Calce Grigolin. Store in a cool and dry place, protected from direct sunlight. Keep packaging intact.

Surface Preparation and Application

For the conditions of application, ask for our application booklet.

Fields of use

The synthesised, expanded, graphite enriched polystyrene panel GRIGOPRESS BLACK is suitable for thermal insulation coatings, both on new buildings and for renovations of existing ones. On the inner side, the panel presents relief parts: a frame around the perimeter and indicators which show the proper place for positioning the glue. Ideal for zoccolature in coating insulation systems due to its low water absorption.

Specifications

Thermal insulation coating from printed panels made of dark color expanded polystyrene of the 100 class, type GRIGOPRESS BLACK 100, in compliance with the UNI EN 13163 standard, with CE marking. The panel measures 1200x600 cm., it has a thermal conductivity of 0.031 W/mK, a fire resistance in Euroclass E, a compressive strength > 100 kPa, a resistance to vapor diffusion $\mu < 70$.

1. The insulation panels should be laid onto a profile starting off from ground level, that will serve to align and hold the panels to the surface.

For the zoccolatura, it is good practice to use extruded panels or printed expanded polystyrene up to a height of approximately 30 cm., waterproofed with Galileo Grigoflex from Fornaci Calce Grigolin. Make sure that the walls are mechanically resistant, clean

and free of dirt, oils or disarming. Check that the underlying coatings have sufficient grip, otherwise remove the degraded and/or brittle areas through brushing and apply and adhesion promoter on the clean, dry surface like PRG101 from the arteMURI line and wait 24 hours before gluing the insulation panels.

2. The panels will be glued to the false support, perfectly combined in a bubble with a glue like the AC07-AC08 Isolflex/AC16 Uniras/AC20 Unilight from Fornaci Calce Grigolin.

3. After about 24 hours from installation of the panels, proceed to anchoring them by using 6 ETA-certified screws per sqm., type Grigofix NTK U/STR U/NT U/ST U from Fornaci Calce Grigolin.

4. Onto the insulation panels, apply, after at least 72 hours from installation, a layer of skim plaster by using an adhesive like the AC07-AC08 Isolflex/AC16 Uniras/AC18 Rasolight/AC20 Unilight from Fornaci Calce Grigolin.

In the skim plaster layer, embed an alkali resistant fiberglass mesh weighing 160 gr./sqm., 4 x 4 mm., overlapped laterally by at least 10 cm. Apply lateral mesh stripes even also the corners of all openings to prevent cracks. The corners will be protected by PVC corners with preassembled mesh of various sizes. The skim plastering should have a final thickness of at least 4 mm. and a curing time of about 14 days.

5. The finishing coat will be composed of a siloxane coating, a first background layer of primer like the PRIMER UNI KO-GM or siloxane background F2 COPRENTE and a siloxane intonachino plaster finish, like the XIL2 INTO, recommended particle size 1.5 mm. or the intonachino plaster finish DUE SI, always from the arteMURI line from Fornaci Calce Grigolin, applied after 24 hours after the primer. Apply the intonachino with a stainless steel spatula finish it with a plastic or sponge float.

Alternatively, use an acrylic coating like the ONE COAT or the PRIMER UNI KO-GM or PRIMER or an intonachino plaster finish like the SIL4 INTO with the PRIMER UNI-KO GM or COPRISIL 4, always from the arteMURI line.

Avoid the use of dark paints with a brightness index Y<25.

Technical data

| 100 CLASS | |
|--|------------------|
| Size | 1200 x 600 mm |
| Available thickness | 60-80-100-120 mm |
| Thermal conductivity 10°C (λ) | 0,031 W/mK |
| Resistance to compression with 10% elastic deformation | ≥100 kPa |
| Permeability to water vapor | $\mu < 70$ |
| Fire resistance | E Euroclass |
| Tolerance in length | ±2 mm |
| Tolerance in width | ±2 mm |
| Tolerance in thickness | ±1 mm |
| Tolerance in surface | ±5 mm |

Disclaimers

Do not use the product in contact with heat sources at temperatures higher than +80°C. Any exposure may alter the physical and technical characteristics of the panel.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

grigothem insulating panels

GRIGOWOOL

Mineral wool insulating panel for
coating systems and acoustic
insulation



ETA
07/0145



Product description

Mineral wool insulating panel with CE marking and in compliance with the UNI EN 13162 standard, consisting of special fibers and with a different inner density. On one side, the panel has a special coating to allow a perfect grip for the glue, while the rear side of the panel has a transparent coating for improved grip to the structure. The GRIGOWOOL mineral wool panel has a high permeability to water vapor.

Supply and Storage

The GRIGOWOOL mineral wool panels are supplied in parcels, on pallets with stretch, packed in transparent plastic, with custom logo Fornaci Calce Grigolin. Store in a cool and dry place, protected from direct sunlight. Keep packaging intact.

Surface Preparation and Application

For the conditions of application, ask for our application booklet.

Fields of use

The GRIGOWOOL mineral wool panel is suitable for thermal and acoustic insulation coatings, both on new buildings and for renovations of existing ones and it is ideal for bio-architectural applications. Due to its solid surface, it is highly resistant to mechanical tensions.

Specifications

Thermal and acoustic insulation coating from mineral wool panels, type GRIGOWOOL, in compliance with the UNI EN 13162 standard, with CE marking. The panel has a thermal conductivity of 0.036 W/mK, a fire resistance in Euroclass A1, a compressive strength > 20 kPa, a resistance to vapor diffusion $\mu=1$.

1. The insulation panels should be laid onto a profile starting off from ground level, that will serve to align and hold the panels to the surface. For the zoccolatura, it is good practice to use extruded panels or printed expanded polystyrene up to a height of approximately 30 cm., waterproofed with Galileo Grigoflex from Fornaci Calce Grigolin. Make sure that the walls are mechanically resistant, clean and free of dirt, oils or disarming. Check that the underlying coat-

ings have sufficient grip, otherwise remove the degraded and/or brittle areas through brushing and apply and adhesion promoter on the clean, dry surface like PRG101 from the arteMURI line and wait 24 hours before gluing the insulation panels.

2. The panels will be glued to the false support, perfectly combined in a bubble with a glue like the AC07-AC08 Isolflex/AC16 Uniras/AC20 Unilight from Fornaci Calce Grigolin.

3. After about 24 hours from installation of the panels, proceed to anchoring them by using 6 ETA-certified screws per sqm., type Grigofix NTK U/STR U/NT U/ST U from Fornaci Calce Grigolin.

4. Onto the insulation panels, apply, after at least 72 hours from installation, a layer of skim plaster by using an adhesive like the AC07-AC08 Isolflex/AC16 Uniras/AC18 Rasolight/AC20 Unilight from Fornaci Calce Grigolin.

In the skim plaster layer, embed an alkali resistant fiberglass mesh weighing 160 gr./sqm., 4 x 4 mm., overlapped laterally by at least 10 cm. Apply lateral mesh stripes even also the corners of all openings to prevent cracks. The corners will be protected by PVC corners with preassembled mesh of various sizes. The skim plastering should have a final thickness of at least 4 mm. and a curing time of about 14 days.

5. The finishing coat will be composed of a siloxane coating, a first background layer of primer like the PRIMER UNI KO-GM or siloxane background F2 COPRENTE and a siloxane intonachino plaster finish, like the XIL2 INTO, recommended particle size 1.5 mm. or the intonachino plaster finish DUE SI, always from the arteMURI line from Fornaci Calce Grigolin, applied after 24 hours after the primer. Apply the intonachino with a stainless steel spatula finish it with a plastic or sponge float.

Alternatively, use an acrylic coating like the ONE COAT or the PRIMER UNI KO-GM or PRIMER or an intonachino plaster finish like the SIL4 INTO with the PRIMER UNI-KO GM or COPRISIL 4, always from the arteMURI line.

Avoid the use of dark paints with an brightness index $Y<25$.

Technical data

| | |
|--|---|
| Size | 1000 x 600 mm |
| Available thickness | mm variable |
| Density | 90/150 kg/m ³ (compressed area) |
| Thermal conductivity 10°C (λ) | 0,036 W/mK |
| Resistance to compression with 10% elastic deformation | ≥ 20 kPa |
| Permeability to water vapor | $\mu=1$ |
| Fire resistance | A1 Euroclass |
| Specific heat | 830 J/Kg°C |
| Dimensional stability | Optimal |
| Decay | Zero |
| Stability to aging | Unlimited |

Disclaimers

Do not use the product in contact with heat sources at temperatures higher than +80°C. Any exposure may alter the physical and technical characteristics of the panel.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

grigothem insulating panels

GRIGOWOOD

Wood fiber insulating panel for
thermal and acoustic insulation



Product description

Insulation panel in fiber wood, produced with scarts of conifer with CE certificate according to the UNI EN 13171 standard, with a different inner density and male-female edges on all 4 sides.

Supply and Storage

The GRIGOWOOD fiber wood panels are supplied in parcels, on pallets with stretch, packed in transparent plastic, with custom logo Fornaci Calce Grigolin. Store in a cool and dry place, protected from direct sunlight. Keep packaging intact.

Surface Preparation and Application

For the conditions of application, ask for our application booklet.

Fields of use

The GRIGOWOOD fiber wood panel is suitable for thermal and accoustic insulation coatings, both on new buildings and for renovations of existing ones and it is ideal for bio-architectural applications and for wooden constructions.

Specifications

Thermal and accoustic insulation coating from fiber wood panels, type GRIGOWOOD, in compliance with the UNI EN 13171 standard, with CE marking. The panel has a thermal conductivity of 0.044 W/mK, a fire resistance in Euroclass E, a compressive strength > 20 kPa, a resistance to vapor diffusion $\mu < 5$.

1. The insulation panels should be laid onto a profile starting off from ground level, that will serve to align and hold the panels to the surface.

For the zoccolatura, it is good practice to use extruded panels or printed expanded polystyrene up to a height of approximately 30 cm., waterproofed with Galileo Grigoflex from Fornaci Calce Grigolin. Make sure that the walls are mechanically resistant, clean and free of dirt, oils or disarming. Check that the underlying coatings have sufficient grip, otherwise remove the degraded and/or brittle areas

through brushing and apply and adhesion promoter on the clean, dry surface like PRG101 from the arteMURI line and wait 24 hours before gluing the insulation panels.

2. The panels will be glued to the false support, perfectly combined in a bubble with a glue like the AC07-AC08 Isolflex/AC16 Uniras/AC20 Unilight from Fornaci Calce Grigolin.

3. After about 24 hours from installation of the panels, proceed to anchoring them by using 6 ETA-certified screws per sqm., type Grigofix NTK U/STR U/NT U/ST U from Fornaci Calce Grigolin.

4. Onto the insulation panels, apply, after at least 72 hours from installation, a layer of skim plaster by using an adhesive like the AC07-AC08 Isolflex/AC16 Uniras/AC18 Rasolight/AC20 Unilight from Fornaci Calce Grigolin.

In the skim plaster layer, embed an alkali resistant fiberglass mesh weighing 160 gr./sqm., 4 x 4 mm., overlapped laterally by at least 10 cm. Apply lateral mesh stripes even also the corners of all openings to prevent cracks. The corners will be protected by PVC corners with preassembled mesh of various sizes. The skim plastering should have a final thickness of at least 4 mm. and a curing time of about 14 days.

5. The finishing coat will be composed of a siloxane coating, a first background layer of primer like the PRIMER UNI KO-GM or siloxane background F2 COPRENTE and a siloxane intonachino plaster finish, like the XIL2 INTO, recommended particle size 1.5 mm. or the intonachino plaster finish DUE SI, always from the arteMURI line from Fornaci Calce Grigolin, applied after 24 hours after the primer. Apply the intonachino with a stainless steel spatula finish it with a plastic or sponge float.

Alternatively, use an acrylic coating like the ONE COAT or the PRIMER UNI KO-GM or PRIMER or an intonachino plaster finish like the SIL4 INTO with the PRIMER UNI-KO GM or COPRISIL 4, always from the arteMURI line.

Avoid the use of dark paints with an brightness index Y<25.

Technical data

| | |
|--|-----------------------|
| Size | 1300 x 790 mm |
| Available thickness | 60-80-100 mm |
| Density | 190 kg/m ³ |
| Thermal conductivity 10°C (λ) | 0,044 W/mK |
| Resistance to compression with 10% elastic deformation | ≥70 kPa |
| Permeability to water vapor | $\mu < 5$ |
| Fire resistance | E Euroclass |
| Specific heat | 2100 J/Kg°K |
| Dimensional stability | Optimal |
| Decay | Unlimited |
| Stability to aging | Unlimited |

Disclaimers

Do not use the product in contact with heat sources at temperatures higher than +80°C. Any exposure may alter the physical and technical characteristics of the panel.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

grigothem insulating panels

GRIGOCORK

Black cork insulating panel for thermal and acoustic insulation

Product description

Natural insulation panel, ecological, regenerable, produced from selected bark, with CE certificate according to the UNI EN 13170 standard. The roasting process leads to a swelling of the granules and thus, to an improvement of the insulation characteristics.

Supply and Storage

The GRIGOCORK black cork panels are supplied in parcels, on pallets with stretch, packed in transparent plastic, with custom logo Fornaci Calce Grigolin. Store in a cool and dry place, protected from direct sunlight. Keep packaging intact.

Surface Preparation and Application

For the conditions of application, ask for our application booklet.

Fields of use

The GRIGOCORK fiber wood panel is suitable for thermal and acoustic insulation coatings, both on new buildings and for renovations of existing ones and it is ideal for bio-architectural applications and for wooden constructions.

Specifications

Thermal and acoustic insulation coating from black cork panels, type GRIGOCORK, in compliance with the UNI EN 13170 standard, with CE marking. The panel has a thermal conductivity of 0.040 W/mK, a fire resistance in Euroclass E, a compressive strength > 20 kPa, a resistance to vapor diffusion $\mu < 30$.

1. The insulation panels should be laid onto a profile starting off from ground level, that will serve to align and hold the panels to the surface.

For the zoccolatura, it is good practice to use extruded panels or printed expanded polystyrene up to a height of approximately 30 cm., waterproofed with Galileo Grigoflex from Fornaci Calce Grigolin. Make sure that the walls are mechanically resistant, clean and free of dirt, oils or disarming. Check that the underlying coatings have sufficient grip, otherwise remove the degraded and/or brittle areas through brushing and apply and adhesion promoter on the clean, dry surface like PRG101

from the arteMURI line and wait 24 hours before gluing the insulation panels.

2. The panels will be glued to the false support, perfectly combined in a bubble with a glue like the AC07-AC08 Isolflex/AC16 Uniras/AC20 Unilight from Fornaci Calce Grigolin.

3. After about 24 hours from installation of the panels, proceed to anchoring them by using 6 ETA-certified screws per sqm., type Grigofix NTK U/STR U/NT U/ST U from Fornaci Calce Grigolin.

4. Onto the insulation panels, apply, after at least 72 hours from installation, a layer of skim plaster by using an adhesive like the AC07-AC08 Isolflex/AC16 Uniras/AC18 Rasolight/AC20 Unilight from Fornaci Calce Grigolin.

In the skim plaster layer, embed an alkali resistant fiberglass mesh weighing 160 gr./sqm., 4 x 4 mm., overlapped laterally by at least 10 cm. Apply lateral mesh stripes even also the corners of all openings to prevent cracks. The corners will be protected by PVC corners with preassembled mesh of various sizes. The skim plastering should have a final thickness of at least 4 mm. and a curing time of about 14 days.

5. The finishing coat will be composed of a siloxane coating, a first background layer of primer like the PRIMER UNI KO-GM or siloxane background F2 COPRENTA and a siloxane intonachino plaster finish, like the XIL2 INTO, recommended particle size 1.5 mm. or the intonachino plaster finish DUE SI, always from the arteMURI line from Fornaci Calce Grigolin, applied after 24 hours after the primer. Apply the intonachino with a stainless steel spatula finish it with a plastic or sponge float. Alternatively, use an acrylic coating like the ONE COAT or the PRIMER UNI KO-GM or PRIMER or an intonachino plaster finish like the SIL4 INTO with the PRIMER UNI-KO GM or COPRISIL 4, always from the arteMURI line.

Avoid the use of dark paints with an brightness index Y<25.

Technical data

| | |
|--|---------------------------|
| Size | 1000 x 500 mm |
| Available thickness | mm variable |
| Density | 110/130 kg/m ³ |
| Thermal conductivity 10°C (λ) | 0,040 W/mK |
| Resistance to compression with 10% elastic deformation | 200 kPa |
| Permeability to water vapor | μ 5-30 |
| Fire resistance | E Euroclass |
| Specific heat | 2100 J/Kg°K |
| Dimensional stability | Optimal |

Disclaimers

Do not use the product in contact with heat sources at temperatures higher than +80°C. Any exposure may alter the physical and technical characteristics of the panel.



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RETE PER CAPPOTTO

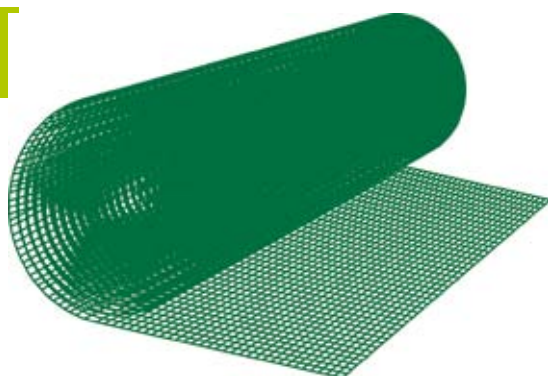
Alkali-resistant fiberglass mesh for
coating systems



ETA
05/0196



ETA
07/0145



Product description

Fiberglass reinforcement mesh for coating systems, subjected to an impregnation treatment to make it alkali resistant. Green color with Grigolin custom logo.

Supply and Storage

The fiberglass reinforcement mesh for Grigothem coating systems is supplied in 50 m. Rolls, with width of 1.00 or 1.10 m. Store in a cool, dry place, protected from direct sunlight.

Fields of use

The fiberglass reinforcement mesh is used for Grigothem coating systems.

Specifications

The reinforcement mesh should be placed between two layers of skim plaster during the installment of the insulating panel shaving. During the mesh installation, avoid the formation of bubbles or creases. The mesh must never come into direct contact with the insulating panel, but will be embedded in the first layer of skim plaster gear with a toothed spatula of 2-3 mm., so that it does not appear on the surface. The mesh is drawn from top to bottom and exceeds the sides by at least 10 cm. In correspondence of the corners of each opening, apply additional pieces of mesh, also to be embedded in the skim plaster and tilted to 45°.

Technical data Linear density (per 100 mm)

| | 3,5x3,8 mm | 6,5x6,5 mm |
|---|------------------|------------------|
| Warp | 25 x 2 | 14 x 2 |
| Weave | 20,5 | 13 |
| Mesh width (cm. +-1%) | 110 | 100 |
| Roll length (m +-2%) | 50 | 50 |
| Binding | half English lap | half English lap |
| Thickness of treated mesh (mm) | 0,52 | 0,65 |
| Weight of raw fabric (gr/m ²) | 131 | 120 |
| Weight of treated fabric (gr/m ²) | 160 +/- 5% | 159 |
| Treatment percentile (%) | 20 | 23 |
| Treatment type | alkali-resistant | alkali-resistant |
| Mesh size (mm) | 3,5 x 3,8 | 6,5 x 6,5 |

Tensile strength, elongation-to-model 3.5x3.8 mm: minimum tensile strength (N/5 cm.) and maximum elongation (%) established in accordance with DIN EN ISO 13934-1, as follows:

| | Tensile strength | | Elongation |
|---------------------|------------------|------------------|---------------|
| Measuring method | Nominal value | Individual value | Average value |
| Standard conditions | 2000/2200 | 1900/1900 | 3,8/3,8 |
| 5% NaOH solution | 1300/1140 | 1200/1200 | 3,5/3,5 |
| Rapid test | 1500/1700 | 1250/1250 | 3,5/3,5 |

Tensile strength, elongation-to-model 6.5x6.5 mm: minimum tensile strength (N/5 cm.) and maximum elongation (%) established in accordance with DIN EN ISO 13934-1, as follows:

| | Tensile strength | | Elongation |
|---------------------|------------------|------------------|---------------|
| Measuring method | Nominal value | Individual value | Average value |
| Standard conditions | 2000/2200 | 1500/1500 | 3,5/3,5 |
| 5% NaOH solution | 1300/1500 | 1100/1200 | 3,5/3,5 |
| Rapid test | 1500/1600 | 450/650 | 3,5/3,5 |

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GRIGOFIX STR U



ETA
05/0196



ETA
07/0145

Product description

Dowel screw, ETA-04/0023 certificate, with preassembled steel screw for the attachment of insulation panels in insulation coating. The head of the nail is recessed in the insulating panel and covered by an insulating washer of the same material of the panel to form a level surface, with no need for plastering work. This prevents the screw to emerge from the facade and anchor bolts which are not properly anchored are immediately recognized. For screwing, use the appropriate STR-Tool. Mountable as an alternative in a level manner by using EPS pads (Stopfen). Dowel approved for all classes construction of materials, hence suitable for concrete surfaces, solid and hollow bricks, lightweight and cellular concrete.

Technical data

| | |
|---|---|
| Dowel diameter | 8 mm |
| Dish diameter | 60 mm |
| Hole depth (level mounting) | ≥ 35 mm (75 mm) |
| Hole depth (sunken mounting) | ≥ 50 mm (90 mm) |
| Anchoring depth | ≥ 25 mm (65 mm) |
| Approval | ETA-04/0023 |
| Destination of use | A (cement) B (solid bricks) C (hollow bricks) D (lightweight porous concrete) E (cellular cement bricks) |
| Thermal conductivity | < 0,0016 W/mK |
| Insulating thickness | 60-360 mm |
| Values in paranthesis: anchoring in cellular concrete (utilizare categoria E) | |

Loads of use

| | |
|--|---------|
| Normal cement C 12/15 16/20 50/60, according to EN 206-1 | 1,5 kN |
| Construction brick, according to DIN 105 | 1,5 kN |
| Solid brick of limestone sandstone, according to DIN EN 106 | 1,5 kN |
| Solid brick of lightweight cls, according to DIN 18152 | 0,6 kN |
| Hollow brick, according to DIN 105 | 1,2 kN |
| Hollow brick of limestone sandstone, according to DIN EN 106 | 1,5 kN |
| Hollow block of lightweight cls, according to DIN 18151 | 0,6 kN |
| Lightweight cellular cls with dissolved material (LAC) | 0,9 kN |
| Cellular cls P2-P7 | 0,75 kN |

| Thickness of insulating layer, in mm, A-D category | Thickness of insulating layer, in mm, E category | Screw length, in mm | Product name | Pcs. per bag |
|--|--|---------------------|--------------------|--------------|
| New*/Old** | New*/Old** | | | |
| 80/60 ⁽¹⁾ | | 115 | GrigoFix STR U 115 | 100 |
| 100/80 | 60 ⁽¹⁾ / – | 135 | GrigoFix STR U 135 | 100 |
| 120/100 | 80/60 ⁽¹⁾ | 155 | GrigoFix STR U 155 | 100 |
| 140/120 | 100/80 | 175 | GrigoFix STR U 175 | 100 |
| 160/140 | 120/100 | 195 | GrigoFix STR U 195 | 100 |
| 180/160 | 140/120 | 215 | GrigoFix STR U 215 | 100 |
| 200/180 | 160/140 | 235 | GrigoFix STR U 235 | 100 |
| 220/200 | 180/160 | 255 | GrigoFix STR U 255 | 100 |
| 240/220 | 200/180 | 275 | GrigoFix STR U 275 | 100 |
| 260/240 | 220/200 | 295 | GrigoFix STR U 295 | 100 |
| 280/260 | 240/220 | 315 | GrigoFix STR U 315 | 100 |
| 300/280 | 260/240 | 335 | GrigoFix STR U 335 | 100 |
| 320/300 | 280/260 | 355 | GrigoFix STR U 355 | 100 |
| 340/320 | 300/280 | 375 | GrigoFix STR U 375 | 100 |
| 360/340 | 320/300 | 395 | GrigoFix STR U 395 | 100 |

(1) Only level fitting at surface

* thickness adhesive 10 mm

** thickness adhesive 10 mm and thickness old concrete 20 mm

N.B. Use GRIGOFIX STR U always in combination with tamponcino (Stopfen) or with EPS or mineral wool.

GRIGOFIX STR H



Product description

Dowel screw, with preassembled steel screw for attachment of insulation panels onto wood subfloors. May be used with STR dish for a level surface which does not require additional plastering work, or alternatively, mountable in level using EPS Pads already included in the package.

Technical data

| | |
|----------------|----------|
| Dowel diameter | 6 mm |
| Dish diameter | 60 mm |
| Drilling depth | 30-40 mm |

Loads of use

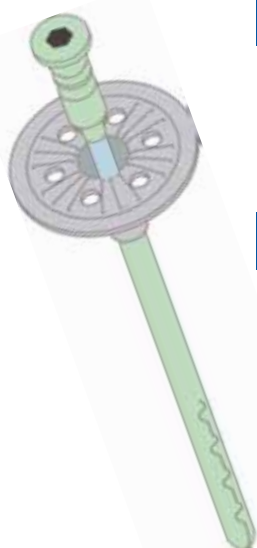
| | |
|---|---------|
| Wood fiber panel (thickness ≥ 17 mm) | 0,25 kN |
| Masonite panel (thickness ≥ 13 mm) | 0,25 kN |
| Gypsum fiber panel (thickness $\geq 12,5$ mm) | 0,15 kN |
| OSB panel (thickness ≥ 16 mm) | 0,25 kN |
| Hardwood panel (thickness ≥ 27 mm) | 0,25 kN |

| Tthickness of insulating layer, in mm Sunken mounting | Tthickness of insulating layer, in mm Level mounting | Screw length, in mm | Product name | Pcs. per bag |
|--|---|---------------------|--------------------|--------------|
| - | 40 | 80 | Grigofix STR H 080 | 100 |
| - | 60 | 100 | Grigofix STR H 100 | 100 |
| 80 | 80 | 120 | Grigofix STR H 120 | 100 |
| 100 | 100 | 140 | Grigofix STR H 140 | 100 |
| 120 | 120 | 160 | Grigofix STR H 160 | 100 |
| 140 | 140 | 180 | Grigofix STR H 180 | 100 |
| 160 | 160 | 200 | Grigofix STR H 200 | 100 |
| 180 | 180 | 220 | Grigofix STR H 220 | 100 |
| 200 | 200 | 240 | Grigofix STR H 240 | 100 |
| 220 | 220 | 260 | Grigofix STR H 260 | 100 |
| 240 | 240 | 280 | Grigofix STR H 280 | 100 |
| 260 | 260 | 300 | Grigofix STR H 300 | 100 |

N.B. Use GRIGOFIX STR U always in combination with tamponcino (Stopfen) already included in the package.

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GRIGOFIX SDM-T PLUS



Product description

Dowel screw, ETA-04/0064 certified, with preassembled steel nail and plastic head to reduce thermal bridges. Suitable for attachment of insulation panels in thermal isolation coatings; with its long expansion area, it is particularly destined for difficult surfaces or for thick insulating material (up to 340 mm). Dowel suitable for concrete surfaces, solid and hollow bricks.

Technical data

| | |
|----------------------|---|
| Screw diameter | 8 mm |
| Dish diameter | 60 mm |
| Drilling depth | ≥ 80 mm |
| Anchoring depth | ≥ 70 mm |
| Approval | ETA-04/0064 |
| Destination of use | A (cement) B (solid bricks) C (hollow bricks) |
| Thermal conductivity | < 0,0016 W/mK |
| Insulating thickness | 40-340 mm |
| Screw action | TORX T40 |

Loads of use

| | |
|--|---------|
| Normal cement C 12/15 16/20 50/60, according to EN 206-1 | 1,5 kN |
| Construction brick, according to DIN 105 | 1,5 kN |
| Solid brick of limestone sandstone, according to DIN EN 106 | 1,5 kN |
| Solid brick of lightweight cls, according to DIN 18152 | 0,9 kN |
| Hollow brick, according to DIN 105 | 1,2 kN |
| Hollow brick of limestone sandstone, according to DIN EN 106 | 1,5 kN |
| Hollow block of lightweight cls, according to DIN 18151 | 0,75 kN |

| Thickness of insulating layer, in mm | Screw length, in mm | Product name | Pcs. per bag |
|--------------------------------------|---------------------|-------------------------|--------------|
| New*/Old** | | | |
| 40/- | 120 | GrigoFix SDM-T plus 120 | 100 |
| 60/40 | 140 | GrigoFix SDM-T plus 140 | 100 |
| 80/60 | 160 | GrigoFix SDM-T plus 160 | 100 |
| 100/80 | 180 | GrigoFix SDM-T plus 180 | 100 |
| 120/100 | 200 | GrigoFix SDM-T plus 200 | 100 |
| 140/120 | 220 | GrigoFix SDM-T plus 220 | 100 |
| 160/140 | 240 | GrigoFix SDM-T plus 240 | 100 |
| 180/160 | 260 | GrigoFix SDM-T plus 260 | 100 |
| 200/180 | 280 | GrigoFix SDM-T plus 280 | 100 |
| 220/200 | 300 | GrigoFix SDM-T plus 300 | 100 |
| 240/220 | 320 | GrigoFix SDM-T plus 320 | 100 |
| 260/240 | 340 | GrigoFix SDM-T plus 340 | 100 |
| 300/280 | 380 | GrigoFix SDM-T plus 380 | 100 |
| 340/320 | 420 | GrigoFix SDM-T plus 420 | 100 |

* thickness adhesive 10 mm

** thickness adhesive 10 mm and thickness old concrete 20 mm

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GRIGOFIX NTK U



ETA
05/0196



ETA
07/0145

Description

Universal percussion wedge, ETA-07/0026 certified, with preassembled synthetic nail, reinforced with fiberglass and plastic head to reduce thermal bridges. Tension defined through the telescopic element of this wedge: with the last adjustment stroke, the plate comes off and runs on the stem, while the expansion zone remains firmly anchored. Wedge suitable for concrete surfaces, solid and hollow bricks.

Technical data

| | |
|----------------------|---|
| Screw diameter | 8 mm |
| Dish diameter | 60 mm |
| Drilling depth | ≥ 50 mm |
| Anchoring depth | ≥ 40 mm |
| Approval | ETA-07/0026 |
| Destination of use | A (cement) B (solid bricks) C (hollow bricks) |
| Thermal conductivity | < 0,0016 W/mK |
| Insulating thickness | 40-180 mm |

Loads of use

| | |
|--|--------|
| Normal cement C 12/15 according to EN 206-1 | 0,6 kN |
| Normal cement C 16/20 50/60, according to EN 206-1 | 0,9 kN |
| Construction brick, according to DIN 105 | 0,9 kN |
| Solid brick of limestone sandstone, according to DIN EN 106 | 0,9 kN |
| Hollow brick, according to DIN 105 | 0,6 kN |
| Hollow brick of limestone sandstone, according to DIN EN 106 | 0,9 kN |

| Thickness of insulating layer, in mm | Screw length, in mm | Product name | Pcs. per bag |
|--------------------------------------|---------------------|--------------------|--------------|
| New*/Old** | | | |
| 40 | 90 | Grigofix NTK U 090 | 200 |
| 60/40 | 110 | Grigofix NTK U 110 | 200 |
| 80/60 | 130 | Grigofix NTK U 130 | 200 |
| 100/80 | 150 | Grigofix NTK U 150 | 200 |
| 120/100 | 170 | Grigofix NTK U 170 | 100 |
| 140/120 | 190 | Grigofix NTK U 190 | 100 |
| 160/140 | 210 | Grigofix NTK U 210 | 100 |
| 180/160 | 230 | Grigofix NTK U 230 | 100 |

* thickness adhesive 10 mm

** thickness adhesive 10 mm and thickness old concrete 20 mm

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GRIGOFIX NT U



Description

Universal percussion wedge, ETA-05/0009 certified, with preassembled anti-breaking steel nail and plastic head to reduce thermal bridges. Suitable for the attachment of insulation panels in isolation coating. Dowel suitable for concrete surfaces, solid and hollow bricks.

Technical data

| | |
|----------------------|---|
| Screw diameter | 8 mm |
| Dish diameter | 60 mm |
| Drilling depth | ≥ 35 mm |
| Anchoring depth | ≥ 25 mm |
| Approval | ETA-05/0009 |
| Destination of use | A (cement) B (solid bricks) C (hollow bricks) |
| Thermal conductivity | < 0,0016 W/mK |
| Insulating thickness | 60-260 mm |

Loads of use

| | |
|--|--------|
| Normal cement C 12/15 16/20 50/60, according to EN 206-1 | 1,2 kN |
| Construction brick, according to DIN 105 | 1,5 kN |
| Solid brick of limestone sandstone, according to DIN EN 106 | 1,5 kN |
| Solid brick of lightweight cls, according to DIN 18152 | 0,5 kN |
| Hollow brick, according to DIN 105 | 0,9 kN |
| Hollow brick of limestone sandstone, according to DIN EN 106 | 1,5 kN |
| Hollow block of lightweight cls, according to DIN 18151 | 0,5 kN |

| Thickness of insulating layer, in mm | Screw length, in mm | Product name | Pcs. per bag |
|--------------------------------------|---------------------|-------------------|--------------|
| New*/Old** | | | |
| 60/40 | 95 | Grigofix NT U 095 | 100 |
| 80/60 | 115 | Grigofix NT U 115 | 100 |
| 100/80 | 135 | Grigofix NT U 135 | 100 |
| 120/100 | 155 | Grigofix NT U 155 | 100 |
| 140/120 | 175 | Grigofix NT U 175 | 100 |
| 160/140 | 195 | Grigofix NT U 195 | 100 |
| 180/160 | 215 | Grigofix NT U 215 | 100 |
| 200/180 | 235 | Grigofix NT U 235 | 100 |
| 220/200 | 255 | Grigofix NT U 255 | 100 |
| 240/220 | 275 | Grigofix NT U 275 | 100 |
| 260/240 | 295 | Grigofix NT U 295 | 100 |

* thickness adhesive 10 mm

** thickness adhesive 10 mm and thickness old concrete 20 mm

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ACCESSORI



Accessories for GRIGOFIX STR U and STR GRIGOFIX H anchors

- EPS washer, pack of 100 pcs.
- mineral wool washer, pack of 100 pcs.
- EPS Stopfen, pack of 500 pcs.

Accessories for inserting GRIGOFIX STR U and GRIGOFIX STR H anchors

- Tool STR
Tool for the level installation of GRIGOFIX STR U and GRIGOFIX STR H
- Replacement Tool STR
For the change of worn parts, consisting of 3 cutting heads and 3 bits for screwing in the mounting.

Profiles

- Starting profiles with drip in natural aluminum. Various thicknesses available. Length 2.50 m.
- Profiles for windows and windowsills with adhesive tape and mesh dressed in fiberglass plus.

Nails

- Steel percussion nail for mounting departure profiles.

Corners

- PVC and aluminum corners with mesh dressed in fiberglass 160 gr/sqm., 80x120 mm. or 100x150 mm., with or without drip. Length: 2.50 m. Corners also available in PVC in rolls of 25 meters.

Joints

- Expansion joints in PVC with mesh dressed in fiberglass 160 g./sqm. 100x100 mm. Length: 2 m.



arteMURI

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| | |
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| 3 ELASTOMER | page 160 |
| 4 SILICATE | page 167 |
| 5 LIME | page 177 |
| 6 SPECIAL | page 188 |
| SPECIFIC arteMURI SKIM PLASTERS | page 204 |

The great variety of solutions of the arteMURI line offers an effective synergy and integration with the other Fornaci Calce Grigolin products for the completion of a cycle of intervention, ranging from basic products to the finish, for which the company is the only supplier.

The experience gained over the years and attention to the customer have resulted in a line marked by an original packaging and a wide range of finishes, coatings and colors which makes it possible, with the help of the coloring system, to meet any chromatic requirements in an expedite manner.

UNO FIX

Water-based, transparent, acrylic insulator



Product description and fields of use

Impregnating base, based on water, styrene-acrylic copolymers in aqueous dispersion, with a high bonding power. The dry film of the product blocks the crumbling and the degradation of the support by standardizing the irregular absorption of the wall surface, promoting the grip of finishing products and the regularization of aesthetic appearance. Presents very good insulation and consolidation characteristics and an exceptional resistance to alkali. Thanks to all this, the product is an excellent mural fixative, suitable for any type of wall surface as background preparation for smooth, quartz, or filling finishes and coatings to a thickness of acrylic class.

Advantages

insulating and consolidating properties
regulation of absorption
very high yield
resistance to alkali

Specifications

The wall surfaces, such as hydraulic lime-binder mortar plasters, premixed and traditional, smooth finished, mineral shavings, concrete conglomerates and gypsum supports of various types, may be treated with the water-dilutable fixative for exterior and interior surfaces UNO FIX from Fornaci Calce Grigolin, product based on styrene-acrylic copolymers in aqueous dispersion. The minimum consumption of this product is equal to 0.04 l/m².

Consumption and packaging

UNO FIX is supplied in buckets of 5 l and 20 l. The minimum consumption of this product is equal to 0.04 l/m².

Conservation

Store at temperatures between +5°C to +40°C in original sealed containers. Under these conditions, the life of the stored product is at least one year. Keep from freezing.

Surface Preparation

The new wall surfaces must be cured, dry, free from dust and little adherent parts. To level and plaster imperfections such as holes, cracks or crannies, first apply the appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove the degraded tempera paint or thick and incompletely adherent decorations. Clean any mold or algae which might be

present with the SEI KO detergent and then sanitize the surface with the SEI OK reparator. Possible imperfections still present should be plastered and leveled.

Product Preparation

In the case of surfaces with average absorbance, UNO FIX must be diluted with 6 parts of water and mixed thoroughly; for little absorbent surfaces it is preferable to dilute the product with 8-10 parts of water, while for highly absorbent surfaces, the product must be diluted with only 3-4 parts of water.

Application

The product should be evenly applied by brush, but you can also use a roller, spray or airless. After about 4 hours, at standard ambient conditions, proceed with the application of the finish.

Important Notes

Do not apply the product if ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|--|
| Binder type | acrylic copolymers |
| Texture | liquid/milky |
| Specific weight (ISO 2811 at 23°C) | 1.000 ± 20 g/l |
| Application | preferably brush, roller, spray or airless |
| Consumption | approx. 40 g/m ² (0,04 l/m ²) |
| Theoretical yield | 25 m ² /l |
| COV Content (DIR. 2004/42/CE) | Fixing primer – A category EU limit values for sub-category h type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 4 hrs. |



arteMURI 1 acrilico

PRIMO

Water-based pigmented acrylic base



Product description and fields of use

PRIMO is a pigmented insulator based on styrene-acrylic copolymers in water dispersion, inorganic pigments and selected inerts, specific for the preparation of exterior and interior wall surfaces. The product has a high resistance to alkali, high binding and adhesion power, high filler features and an exceptional ability to level the irregular absorption of the treated wall surface. Moreover, the high power coverage allows, in many cases, for the saving of one coat of finish. PRIMO is used successfully as background base, white or colored, on mortar plaster based on hydraulic lime-binder rough or finished, irregular and difficult to cover surfaces, such as old paintings in strong tones or where there are traces of stucco work and small imperfections, to be completed by finishes, plasters, thick coatings in clear tones and in painting with bright shades on limited coverage. Moreover, it is particularly suited for application on levellings and thermal insulation systems, as it has the property to create a rough surface that promotes

grip for subsequent layers of any type of thick coatings in the acrylic class. PRIMO may be coloured with the arteMURI tintometric system.

Advantages

levelling and insulating base
good coverage
pigmented base for thick coatings
adhesive base

Technical specifications

Wall surfaces, such as mortar plasters based on hydraulic binder lime, premixed and traditional, civil finishes, conglomerates in concrete and plaster surfaces of various kinds, may be finished with the pigmented, water-dilutable base with high coverage for exterior and interior applications. PRIMO from Fornaci Calce Grigolin, product based on styrene-acrylic copolymers in water dispersion. The minimum consumption of this product is equal to 0.12 l/m².

Consumption and packaging

PRIMO is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.12 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Keep from freezing.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, first apply the appropriate

restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled.

Product Preparation

PRIMO must be diluted with about 15-20% by volume of water for roller applications and 20-25% for brush applications. In both cases, the product should be thoroughly mixed.

Application

Apply a layer taking care to evenly distribute the product onto the surface. If necessary, apply a second layer to obtain a more uniform surface. After about 6 hours, proceed with the application of finishes in the acrylic class.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | acrylic copolymers |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.500 ± 30 g/l |
| Viscosity | 16.000 ± 2.000 cP |
| Application | brush, roller |
| Consumption | approx. 180 g/m ² (0,12 l/m ²) |
| Theoretical yield | 8,3 m ² /l |
| COV Content (DIR. 2004/42/CE) | Fixing primer – A category EU limit values for sub-category h type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 6 hrs. |



arteMURI
1 acrylic

UNI COPRIX

Structural base for plasterboard



Product description and fields of use

UNI COPRIX is a structural base, based on styrene-acrylic copolymers in aqueous dispersion, inorganic pigments and selected inerts. The product is alkali-resistant and has a high binding and adhesion power. Thanks to its component microparticles, COPRIX UNI is particularly suited for applications on plaster board, creating a rough surface that promotes grip of subsequent layers of any thick finish.

It is the ideal product for application on smooth walls where you want to create a rough, mortar-like finish, on brushwork, concrete curbs and any smooth wall surfaces.

Advantages

structural base for plasterboard
high resistance to rubbing and washing
excellent coverage

Technical specifications

Wall surfaces, such as mortar plasters based on hydraulic binder lime, premixed and traditional, civil finishes, conglomerates in concrete, smooth wall surfaces and plasterboards, may be finished with the structural base with high coverage power and resistance to washing, UNI COPRIX from Fornaci Calce Grigolin, product based on styrene-acrylic copolymers in water dispersion and selected inerts. The minimum consumption of this product is equal to 0.28 l/m² in two layers.

Consumption and packaging

UNI COPRIX is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.28 l/m² in two layers.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Keep from freezing.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, first apply the appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings

and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled.

Product Preparation

Dilute with about 10% by volume of water for roller applications, for both layers, and with max. 5% for brush applications. In both cases, the product should be thoroughly mixed.

Application

Apply the first layer taking care to evenly distribute the product onto the surface. After about 6 hours, proceed with the application of the second layer.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | acrylic copolymers |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.700 ± 30 g/l |
| Viscosity | 25.000 ± 3.000 cP |
| Application | brush, roller |
| Consumption | approx. 230 g/m ² per layer (0,14 l/m ²) |
| Theoretical yield | 3,6 m ² /l in two layers |
| COV Content (DIR. 2004/42/CE) | Fixing primer – A category EU limit values for sub-category h type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 8 hrs. |



arteMURI
1 acrylic

PRIMO LUX

High coverage base for plasterboard



Product description and fields of use

PRIMO LUX is a pigmented insulating base, based on acrylic microemulsion with high penetration, inorganic pigments and micronized inerts, special for the preparation of difficult surfaces such as interior plasterboard, gypsum shavings and smooth wall surfaces. It has a high resistance to alkali, a high binding and adhesion power and an exceptional ability to standardize the irregular absorption of the treated wall surface. Moreover, the high coverage power in many cases allows for the savings of one layer of final painting. PRIMO LUX is mainly used successfully as background, white or colored, on walls with gypsum finish or plasterboard, to be completed later with interior finishes.

It is also suitable for application on mineral plasters and hydraulic lime-binder mortar, finished or not.

PRIMO LUX may be painted with the arteMURI tintometric system.

Advantages

base for plasterboard
leveling and insulation background
high coverage
excellent penetration

Technical specifications

Wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, civil finished or not, conglomerates in concrete and gypsum surfaces of various kinds, may be finished with the high coverage power, water-dilutable, colored base for interiors, PRIMO LUX from Fornaci Calce Grigolin, product based on acrylic microemulsion in water dispersion. The minimum consumption of this product is equal to 0.12 l/m².

Consumption and packaging

PRIMO LUX is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.12 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Keep from freezing.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. All loose parts and traces of dust must first be removed; thoroughly clean the surface before the application. If necessary, plaster and level all surface imperfections, such as holes, crack and crannies with the appropriate restoration product or mortar.

ar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled.

Product Preparation

PRIMO must be diluted with about 15-20% by volume of water for roller applications and 20-25% for brush applications. In both cases, the product should be thoroughly mixed.

Application

Apply a layer taking care to evenly distribute the product onto the surface. If necessary, apply a second layer to obtain a more uniform surface. After about 6 hours, proceed with the application of finishes in the acrylic class.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | acrylic micro-emulsion |
| Texture | paste/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.530 ± 30 g/l |
| Viscosity | 12.000 ± 2.000 cP |
| Application | brush, roller, spray |
| Consumption | approx. 180 g/m ² per layer (0,12 l/m ²) |
| Theoretical yield | 8,3 m ² /l |
| COV Content (DIR. 2004/42/CE) | Fixing primer – A category EU limit values for sub-category h type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 6 hrs. |



The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

ONE MICRO

Consolidating transparent primer
in micro-emulsion



Product description and fields of use

ONE MICRO is an impregnating base, water-based, transparent, odorless, with low VOC content, high penetration power, based on acrylic copolymers in watery dispersion with fine particles, suitable for application on external and internal wall surfaces.

The product has excellent resistance to the alkalinity of the surface and, thanks to the ability of the polymer to penetrate inside the pores of treated surface, it stabilizes the loose and the crumbly, bringing the absorption of the wall surface to an even level. Thanks to this high binding power, ONE MICRO is the most appropriate primer for the consolidation for any situation and for any type of wall surface, such as hydraulic binder lime-based plaster, premixed and traditional, finished calendar, concrete conglomerates and gypsum surfaces of various kinds. Moreover, it is also suitable for application over old layers of mineral paint, well adherent to the surface in question.

MICRO ONE is ideally suited as background for the preparation of application of acrylic-class finishes.

Advantages

high penetration power
consolidating property
regulation of absorption
resistance to alkali

Technical specifications

Wall surfaces, such as mortar plasters based on hydraulic binder lime, premixed and traditional, civil finishes, conglomerates in concrete and plaster surfaces of various kinds, can be treated with the consolidating primer with high water penetration barrier, for external and interior surfaces ONE MICRO of Fornaci Calce Grigolin, product based on acrylic copolymers in watery dispersion. The minimum consumption of this product is equal to 0.10 l/m².

Consumption and packaging

ONE MICRO is supplied in 5 and 20 l. buckets. The minimum consumption of this product is equal to 0.10 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Avoid freezing temperatures.

Preparation of support

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes,

cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled.

Preparation of the product

MICRO ONE is ready to use. In the case of surfaces with low absorption, it is possible to dilute it with water up to 100%. Stir well before application.

Application

Apply preferably by brush in a uniform manner. However, it is also possible to apply the product by roller, spray or airless. After about 4 hours, you can proceed with the application of the finish.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | acrylic micro-emulsion |
| Texture | liquid/transparent |
| Specific weight (ISO 2811 at 23°C) | 1.000 ± 20 g/l |
| Application | preferably brush, roller, spray or airless |
| Consumption | approx. 100 g/m ² (0,10 l/m ²) |
| Theoretical yield | 10 m ² /l |
| COV Content (DIR. 2004/42/CE) | Fixing primer – A category EU limit values for sub-category h type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 4 hrs. |



arteMURI
1 acrylic

UNO ECO

White paint for interiors



Product description and fields of use

UNO ECO is a breathable and covering paint, based on copolymers in aqueous dispersion, solvent-free and with low VOC content.

The product is easy to apply and allows for the obtaining of an opaque film aspect and an aesthetic and uniform coverage.

UNO ECO is suitable for interior applications, on mortar plasters based on hydraulic lime-binder, fine finished, gypsum-based finishing plaster, plaster-board and for interior finishings on wall surfaces of a wide use in construction work.

Advantages

opaque appearance
good coverage
excellent breathability
ease of application

Technical specifications

Interior wall surfaces, such as mortar plasters based on hydraulic binder lime, premixed and traditional, civil finishes, conglomerates in concrete, smooth wall surfaces and plasterboards, may be finished with the interior breathable paint, UNO ECO from Fornaci Calce Grigolin, product based on styrene-acrylic copolymers in water dispersion. The minimum consumption of this product is equal to 0.24 l/m² in two layers.

Consumption and packaging

UNO ECO is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.24 l/m² in two layers.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Avoid freezing temperatures.

Preparation of support

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer.

Possible imperfections still present must be stuccoed and then leveled.

Prepare the surface accordingly, by using a base product specific to the acrylic class.

Product Preparation

For brush applications, the product must be diluted with about 60% by volume of water for the first layer and with 45% for the second layer; for roller applications, the product must be diluted with about 40% by volume of water. In both cases, the product should be thoroughly mixed.

Application

Apply the first layer by brush, roller, spray or airless, taking care to evenly distribute the product onto the surface. After 6 hours, apply the second layer. After another 6 hours, proceed with the application of finishes.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|--|
| Binder type | copolymers in watery dispersion |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.690 ± 30 g/l |
| Viscosity | 20.000 ± 2.000 cP |
| Application | brush, roller, spray or airless |
| Consumption | approx. 200 g/m ² per layer (0,12 l/m ²) |
| Theoretical yield | 4.2 m ² /l in two layers |
| COV Content (DIR. 2004/42/CE) | Opaque paint for interior walls and ceilings – A category EU limit values for sub-category a type BA 30 g./l. (2010) This product contains a maximum of 30 g./l. COV |
| Decoration on the product | 8 hrs. |



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arteMURI
1 acrylic

UNO IN

Professional mural painting for
interior surfaces



Product description and fields of use

UNO IN is a breathable, covering water paint, based on copolymers in watery dispersion, solvent-free and low VOC content.

The product is easy to apply thanks to the remarkable workability and distension. It allows for the obtaining of an aesthetic covering and homogenous result and an opaque aspect of the film. UNO IN is suited for the application on interior surfaces, mortar plasters based on hydraulic lime-binder, civil finishes, bases for gypsum-based finishes, plasterboard and for finishing interior wall surfaces of a wide use in professional construction.

UNO IN may be tinted with the arteMURI tintometric system.

Advantages

opaque appearance
good coverage
excellent breathability
ease of application

Technical specifications

Internal wall surfaces, such as plaster cement, premixed and traditional, civil finishings, conglomerates in concrete and surfaces in gypsum of various kinds, can be finished with the breathable, water paint with high coverage for indoor surfaces UNO IN from Fornaci Calce Grigolin, product based on copolymers in watery dispersion. The minimum consumption of this product is equal to 0.22 l/m² in two coats.

Consumption and packaging

UNO IN is supplied in 5 and 15 l. buckets. The minimum consumption of this product is equal to 0.22 l/m² in two coats.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must

be stuccoed and then leveled.

Perform the preparation of the base according to the conditions of the support with one of the base products specific to the acrylic class.

Product Preparation

For application by brush, dilute the product with 60% by volume of water for the first coat, with 45% by volume for the second coat; for application by roller, dilute the product with 40% by volume of water. In both cases, mix well the whole.

Application

Apply a first coat, taking care to distribute the product uniformly over the surface by brush, roller, spray or airless. After about 6 hours, proceed with the application of the second coat. After an additional 6 hours, you can proceed with the application of the finish.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|--|
| Binder type | copolymers in watery dispersion |
| Texture | paste/fine/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.710 ± 30 g/l |
| Viscosity | 22.000 ± 3.000 cP |
| Application | brush, roller, spray or airless |
| Consumption | approx. 180 g/m ² per coat (0,11 l/m ²) |
| Theoretical yield | 4,5 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Opaque paint for walls and ceilings – A category EU limit values for sub-category a type BA 30 g/l (2010) |
| Decoration on the product | 6 hrs. |
| Degree of gloss (UNI EN ISO 2813) | 5-10 gloss, opaque |



arteMURI
1 acrylic

UNICO

Filling and covering interior paint



Product description and fields of use

UNICO is a smooth water paint, velvety and breathable, made of synthetic copolymers in aqueous dispersion, solvent-free and with low VOC content. It has a high content of titanium dioxide and white and opaque selected fillers. It is easy to apply, it has a good expansion capacity and a high fullness characteristic that makes the product suitable for painting interior premium wall surfaces, giving a homogenous and opaque appearance.

UNICO is suited for the application on interior surfaces, mortar plasters based on hydraulic lime-binder, civil finishes, bases for gypsum-based finishes and plasterboard.

UNICO may be tinted with the arteMURI tintometric system.

Advantages

- opaque appearance
- good fullness and coverage
- excellent breathability
- good white point
- ease of application

Specifications

Interior wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional, civil finishings, conglomerates in concrete and surfaces in gypsum of various kinds, can be finished with the high coverage, smooth, breathable, water paint UNICO from Fornaci Calce Grigolin, product based on copolymers in watery dispersion. The minimum consumption of this product is equal to 0.22 l/m² in two coats.

Consumption and packaging

UNICO is supplied in 5 and 15 l. buckets. The minimum consumption of this product is equal to 0.22 l/m² in two coats.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer.

Possible imperfections still present must be stuccoed and then leveled. Perform the preparation of the base according to the conditions of the support with one of the base products specific to the acrylic class.

Product Preparation

For application by brush, dilute the product with 55% by volume of water for the first coat, with 45% by volume for the second coat; for application by roller, dilute the product with 40% by volume of water. In both cases, mix well the whole.

Application

Apply a first coat, taking care to distribute the product uniformly over the surface by brush, roller, spray or airless. After about 6 hours, proceed with the application of the second coat.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | copolymers in watery dispersion |
| Texture | paste/fine/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.700 ± 30 g/l |
| Viscosity | 25.000 ± 3.000 cP |
| Application | brush, roller, spray or airless |
| Consumption | approx. 180 g/m ² per coat (0,11 l/m ²) |
| Theoretical yield | 4.5 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Opaque paint for walls and ceilings – A category EU limit values for sub-category a type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 6 hrs. |
| Degree of gloss (UNI EN ISO 2813) | 5-10 gloss, opaque |



The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

arteMURI
1 acrilico

UNO TRASPIRA

High-coverage, breathable paint
for interior surfaces



Product description and fields of use

UNO TRASPIRA is a breathable water paint, with a regulated content of synthetic copolymers in aqueous dispersion, solvent-free and with low VOC content. It has an opaque, smooth and velvety appearance and it is highly resistant to friction. It is easy to apply, it has a good expansion capacity and point of white, a high fullness characteristic thanks to its pigment and fine inerts content. Thanks to these characteristics, the product results in a high-quality, decorative aspect which makes it ideal for all types of interior walls.

UNO TRASPIRA is suited for interior applications on mortar plasters based on hydraulic lime-binder, fine finished, for base finishes based on gypsum and plasterboards. UNO TRASPIRA may be tinted with the arteMURI tintometric system.

Advantages

- excellent breathability
- excellent coverage and white point
- good resistance to cleaning
- opaque appearance
- ease of application

Specifications

Interior wall surfaces, such as cementous plasters, premixed and traditional, civil finishings, conglomerates in concrete and gypsum surfaces of various kinds, can be finished with the extra high coverage, opaque, smooth, good resistance to cleaning paint UNO TRASPIRA from Fornaci Calce Grigolin, product based on copolymers in watery dispersion. The minimum consumption of this product is equal to 0.20 l/m² in two coats.

Consumption and packaging

UNO TRASPIRA is supplied in 5 and 15 l. buckets. The minimum consumption of this product is equal to 0.22 l/m² in two coats.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must

be stuccoed and then leveled.

Perform the preparation of the base according to the conditions of the support with one of the base products specific to the acrylic class.

Product Preparation

For application by brush, dilute the product with 50% by volume of water for the first coat, with 40% by volume for the second coat; for application by roller, dilute the product with 35% by volume of water. In both cases, mix well the whole.

Application

Apply a first coat, taking care to distribute the product uniformly over the surface by brush, roller, spray or airless. After about 6 hours, proceed with the application of the second coat. After an additional 6 hours, you can proceed with the application of the finish.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | copolymers in watery dispersion |
| Texture | paste/fine/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.680 ± 30 g/l |
| Viscosity | 16.000 ± 2.000 cP |
| Application | brush, roller, spray or airless |
| Consumption | approx. 160 g/m ² per coat (0,10 l/m ²) |
| Theoretical yield | 5 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Opaque paint for walls and ceilings – A category EU limit values for sub-category a type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 6 hrs. |
| Degree of gloss (UNI EN ISO 2813) | 5-10 gloss, opaque |

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



arteMURI
1 acrilic

UNO ANTIMUFFA

Sanitizing breathable paint for interiors



Product description and fields of use

UNO ANTIMUFFA is an water paint composed of synthetic copolymers in aqueous dispersion, pigments and selected white fillers, solvent-free and with low VOC content, with a mixture of broad-spectrum biocidal additives that counteracts the emergence and proliferation of molds, fungi and algae. The product has a matt and opaque appearance, it has excellent breathability and it is easy to clean, it is easily applicable, like a classic interior water paint. UNO ANTIMUFFA is suitable for interior application on mortar plasters based on hydraulic lime-binder, base finishes gypsum-based and plasterboard. In particular, it is suitable for domestic environments with a high presence of water vapor, such as kitchens, bathrooms, basements, cellars, etc. The product has a mainly preventive action against the attack of molds, fungi and algae, but it can also be used for remediation of areas already damaged and previously painted. UNO ANTIMUFFA may be tinted with the arteMURI tintometric system.

Advantages

contrasts the proliferation of molds and bacteria
suitable for bathrooms and kitchens
opaque appearance
excellent coverage and white point
excellent breathability
good resistance to cleaning
ease of application



Specifications

Interior wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional, civil finishings, conglomerates in concrete and surfaces in gypsum of various kinds, can be finished with the sanitizing, high-coverage, smooth, velvety, breathable, water paint with good resistance to cleaning UNO ANTIMUFFA from Fornaci Calce Grigolin, product based on copolymers in watery dispersion with low VOC content, pigments and selected inerts, with a mixture of broad-spectrum biocidal additives that counteracts the proliferation of molds. The minimum consumption of this product is equal to 0.20 l/m² in two coats.

Consumption and packaging

UNO ANTIMUFFA is supplied in 5 and 15 l. buckets. The minimum consumption of this product is equal to 0.20 l/m² in two coats.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. On surfaces that are already under attack from molds, treat the surface by washing it with the SEI KO detergent so as to exert an oxidant action on mold

Technical data

| | |
|------------------------------------|---|
| Binder type | copolymers in watery dispersion |
| Texture | paste/fine/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.670 ± 30 g/l |
| Viscosity | 16.000 ± 2.000 cP |
| Application | brush, roller, spray or airless |
| Consumption | approx. 160 g/m ² per coat (0,10 l/m ²) |
| Theoretical yield | 5 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Opaque paint for walls and ceilings – A category EU limit values for sub-category a type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Degree of gloss (UNI EN ISO 2813) | 5-10 gloss, opaque |
| Decoration on the product | 6 hrs. |

spores, fungi and algae, and thereby eliminate their presence. After application, let the detergent act for at least 2 hours. In the case of strong infestation, repeat procedure after brushing the dried surface. After this phase, sanitize the surface by applying the reparator SEI OK and, after 4 hours, decorate it with properly diluted UNO ANTIMUFFA. Before painting, perform the preparation of the base according to the conditions of the support with one of the base products specific to the acrylic class.

Product Preparation

For application by brush, dilute the product with 50% by volume of water for the first coat, with 40% by volume for the second coat; for application by roller, dilute the product with 35% by volume of water. In both cases, mix well the whole.

Application

Apply a first coat, taking care to distribute the product uniformly over the surface by brush, roller, spray or airless. After about 6 hours, proceed with the application of the second coat. After an additional 6 hours, you can proceed with the application of the finish.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

arteMURI
1 acrylic

UNO TEX

Super-covering washable paint for interiors



Product description and fields of use

UNO TEX is a water paint, solvent-free, with low VOC content and odour, composed of synthetic copolymers in aqueous dispersion, pigments and selected fillers.

The product has an exceptional covering ability thanks to the special pigments and inerts of which it is composed and allows for the obtaining of a good white point. Moreover, it is easy to apply and it has good resistance to cleaning.

Thanks to these characteristics, it creates high quality aesthetic surfaces and excellent decorations for interior finishes.

UNO TEX is therefore suitable for interior applications on mortar plasters based on hydraulic lime-binder, gypsum-based plaster finishing and plasterboard.

UNO TEX may be tinted with the arteMURI tintometric system.

Advantages

excellent coverage
excellent white point
opaque appearance
good resistance to cleaning
ease of application.

Specifications

Interior wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional, civil finishings, conglomerates in concrete and surfaces in gypsum of various kinds, can be finished with the high-coverage, washable paint UNO TEX from Fornaci Calce Grigolin, product based on copolymers in watery dispersion, pigments and selected inerts. The minimum consumption of this product is equal to 0.20 l/m² in two coats.

Consumption and packaging

UNO TEX is supplied in 5 and 15 l. buckets. The minimum consumption of this product is equal to 0.20 l/m² in two coats.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must

be stuccoed and then leveled.

Perform the preparation of the base according to the conditions of the support with one of the base products specific to the acrylic class.

Product Preparation

For application by brush, dilute the product with 50% by volume of water for the first coat, with 40% by volume for the second coat; for application by roller, dilute the product with 35% by volume of water. In both cases, mix well the whole.

Application

Apply a first coat, taking care to distribute the product uniformly over the surface by brush, roller, spray or airless. After about 6 hours, proceed with the application of the second coat. After an additional 6 hours, you can proceed with the application of the finish.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|---|---|
| Binder type | copolymers in watery dispersion |
| Texture | paste/fine/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.640 ± 30 g/l |
| Viscosity | 18.000 ± 2.000 cP |
| Application | brush, roller, spray or airless |
| Consumption | approx. 160 g/m ² per coat (0,10 l/m ²) |
| Theoretical yield | 5 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Opaque paint for walls and ceilings – A category EU limit values for sub-category a type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 5-10 hrs |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 11998) | >1.000-2.000 cycles, good resistance |
| Decoration on the product | 6 hrs. |



arteMURI
1 acrylic

UNO LAVABILE

Opaque washable paint for interiors



Product description and fields of use

UNO LAVABILE is a water paint, solvent-free, with low VOC content, composed of synthetic copolymers in aqueous dispersion, pigments and selected fillers.

It has excellent resistance to rubbing and washing, good permeability to water vapor and a high covering power. The product is easy to apply thanks to its processability and extension properties and thus, allows for the obtaining of a film with a pleasant look, opaque and velvety. Also, it allows for the obtaining of decorative finishes with multiple shades and hues for the interior decoration. Thanks to all these features, it is able to satisfy the highest demands of professional applicators.

UNO LAVABILE is therefore suitable for interior applications on mortar plasters based on hydraulic lime-binder, gypsum-based plaster finishing and plasterboard.

UNO LAVABILE may be tinted with the arteMURI tintometric system.

Advantages

opaque appearance
excellent selection of colors
excellent point-of-white and coverage
excellent resistance to abrasion and washing
ease of application



Specifications

Interior wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional, civil finishings, conglomerates in concrete and surfaces in gypsum of various kinds, can be finished with the high-coverage, high-resistance to washing, smooth and velvety, opaque, water paint UNO LAVABILE from Fornaci Calce Grigolin, product based on copolymers in watery dispersion, pigments and selected inerts. The minimum consumption of this product is equal to 0.20 l/m² in two coats.

Consumption and packaging

UNO LAVABILE is supplied in 5 and 15 l. buckets. The minimum consumption of this product is equal to 0.20 l/m² in two coats.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer.

Possible imperfections still present must be stuccoed and then leveled.

Perform the preparation of the base according to the conditions of the support with one of the base products specific to the acrylic class.

Product Preparation

For application by brush, dilute the product with 50% by volume of water for the first coat, with 40% by volume for the second coat; for application by roller, dilute the product with 35% by volume of water. In both cases, mix well the whole.

Application

Apply a first coat, taking care to distribute the product uniformly over the surface by brush, roller, spray or airless. After about 6 hours, proceed with the application of the second coat. After an additional 6 hours, you can proceed with the application of the finish.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|---|---|
| Binder type | copolymers in watery dispersion |
| Texture | paste/fine/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.530 ± 30 g/l |
| Viscosity | 20.000 ± 2.000 cP |
| Application | brush, roller, spray or airless |
| Consumption | approx. 150 g/m ² per coat (0,10 l/m ²) |
| Theoretical yield | 5 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Opaque paint for walls and ceilings – A category EU limit values for sub-category a type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Degree of gloss (UNI EN ISO 2813) | 5-10 gloss, opaque |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 11998) | >5.000 cycles, high resistance |
| Decoration on the product | 6 hrs. |

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

arteMURI
1 acrylic

MURI ONE

Mural enamel, superwashable,
odourless, for interior applications



Suitable for decorations in the
presence of food products
(UNI 11021:2002)

Product description and fields of use

MURI ONE is an odorless, water-dilutable enamel, composed of a high proportion of acrylic copolymers in aqueous dispersion with a low VOC content, selected pigments and fillers that give the treated surface high protection and resistance to rubbing and washing. In addition, the product has a low ecological impact, it is non-flammable and it has excellent performance and professional characteristics. Thanks to the ease of application, to the good coverage and to its ability to obtain multiple nuances and shades, MURI ONE allows for the obtaining of a surface decoration of nice, shiny appearance.

All these features make it suitable for interior applications on mortar plasters based on hydraulic lime-binder, gypsum-based plaster finishing and plasterboard. In particular, it is suitable for use in public spaces, environments with high human presence, stairwells and lower sides of various types of walls and it is suitable for painting environments where food is present.

MURI ONE may be tinted with the arteMURI tintometric system.

Advantages

glossy and satin decorative finish
high resistance to washing
ease of application
excellent point-of-white
good dilatation and fullness

Specifications

Interior wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional, civil finishings, conglomerates in concrete and surfaces in gypsum of various kinds, can be finished with the odourless, high-coverage, high-resistance to washing, mural enamel MURI ONE from Fornaci Calce Grigolin, product based on copolymers in watery dispersion with low VOC content, pigments and selected inerts. The minimum consumption of this product is equal to 0.14 l/m² in two coats.

Consumption and packaging

MURI ONE is supplied in 5 and 15 l. buckets. The minimum consumption of this product is equal to 0.14 l/m² in two coats.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present

with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled. Perform the preparation of the base according to the conditions of the support with one of the base products specific to the acrylic class.

Product Preparation

For brush applications, dilute with max. 18% by volume of water for the first coat and with max. 5% for the second one. For roller applications, dilute with max. 3% by volume of water. In both cases, the product should be thoroughly mixed.

Application

Apply a first coat, taking care to distribute the product uniformly over the surface. After about 8 hours, proceed with the application of the second coat.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|---|---|
| Binder type | copolymers in watery dispersion |
| Texture | paste/fine/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.200 ± 30 g/l |
| Viscosity | 3.500 ± 1.000 cP |
| Application | brush, roller, spray or airless |
| Consumption | approx. 90 g/m ² per coat (0,07 l/m ²) |
| Theoretical yield | 7.1 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Glossy paint for walls and ceilings – A category EU limit values for sub-category b type BA 100 g/l (2010) This product contains a maximum of 100 g/l COV |
| Decoration on the product | 8 hrs. |
| Degree of gloss (UNI EN ISO 2813) | glossy version, >60 gloss |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 11998) | >10.000 cycles, super-high resistance to rubbing |

Product suited for decorations in the presence of food products (UNI 11021:2002)
Report N° 139/L of 27.06.2008 GFC Chimica S.r.l. Ferrara



UNO FILL

Anti-algae filling finish for exterior surfaces



Product description and fields of use

UNO FILL water is a fine quartz water paint, superwashable, based on acrylic copolymers in aqueous dispersion, color pigments resistant to light and to UV and selected siliceous fillers. The product is resistant to alkali, weathering, rubbing and washing and has a low resistance to dirt. Moreover, it is easy to apply and has a high filling power, which gives the surface a good water repellence associated with a good permeability to water vapor. In particular, the product contains a within special blend of active ingredients with broad spectrum of action that allows the dry film to protect the treated surface from the proliferation and establishment of molds, fungi and algae.

UNO FILL is thus suitable for outdoor applications, both on new buildings and in urban renovation works, on

mortar plasters based on hydraulic lime-binder, premixed and traditional, finished and concrete conglomerates. UNO FILL may be tinted with the arteMURI tintometric system.

Advantages

- high resistance to rubbing and washing
- high resistance to weathering and UV rays
- excellent water repellence
- excellent coverage
- anti-fouling protection
- large selection of colors

Specifications

Exterior wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional, shavings, thermal insulation systems with pre-finished coatings and various kinds of concrete conglomerates can be finished with the acrylic, high-coverage, high-resistance to washing, filling paint UNO FILL from Fornaci Calce Grigolin, product based on copolymers in watery dispersion, light-resistant pigments and selected inerts. The minimum consumption of this product is equal to 0.22 l/m² in two coats.

Consumption and packaging

UNO FILL is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.22 l/m² in two coats.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled. In the case of walls which are already

Technical data

| | |
|---|---|
| Binder type | copolymers in watery dispersion |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.550 ± 30 g/l |
| Viscosity | 22.000 ± 3.000 cP |
| Application | brush, roller |
| Consumption | approx. 170 g/m ² per coat (0,11 l/m ²) |
| Theoretical yield | 4.5 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Paint for exteriorwalls with mineral surfaces – A category EU limit values for sub-category c type BA 40 g/l (2010) This product contains a maximum of 40 g/l COV |
| Decoration on the product | 8 hrs. |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 11998) | >10.000 cycles, super-high resistance to rubbing |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | $W < 0,5 \text{ kg/m}^2 \cdot \text{h}^{0,5}$ e $S_d < 2 \text{ m}$ |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class II (average), S_d between 0,14 and 1,4 m |
| Permeability to liquid water (UNI EN 1062-3) | Class I (low), $w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$ |



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arteMURI
1 acrylic

UNO FILL

painted with a dark shade of colour, difficult to cover or with an irregular and uneven surface, perform a pre-treatment with the structural UNI KA paint, with an average particle size of 0.3 mm. Always evaluate the surface conditions before using the adequate preparation with an acrylic specific base, like UNO FIX, PRIMO or ONE MICRO or with the solvent-based special base PRG SL T or PRG SL P.

Product Preparation

For brush applications, dilute with max. 30% by volume of water for the first coat and with max. 25% for the second one. For roller applications, dilute with max. 15% by volume of water. In both cases, the product should be thoroughly mixed.

Application

Apply a first coat, taking care to distribute the product uniformly over the surface. After about 8 hours, proceed with the application of the second coat, crossing the direction of application.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. After the application, the exterior surface should be protected from direct rain until fully dry (on average, 48 h.) Prepare a quantity of material sufficient for application in one pass. If different batches of product are used, mix them together to avoid formation of nuance differences. Avoid applying different product batches onto the same surface and finish the wall portion with the same batch, then start work on the cornering wall with a fresh batch of product. Product adhesion onto the surface is not guaranteed when the application is made on surfaces which show traces of saline efflorescence or which are subjected to humidity, which is why a preventive curing intervention is required. Immediately after use rinse tools and equipment with water. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

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arteMURI
1 acrylic

QUARZ-ONE

Fine quartz finish for exterior surfaces



Product description and fields of use

QUARZ ONE is a micro-decoration based on fine quartz, on acrylic copolymers in aqueous dispersion, color pigments resistant to light and to UV and selected siliceous fillers. The product has a high filling and covering power, it is very resistant to alkali, weathering and a low resistance to dirt. Moreover, it is very resistant to friction and washing. QUARZ ONE is thus suitable for outdoor applications, on mortar plasters based on hydraulic lime-binder, premixed and traditional, finished and concrete conglomerates.

It is suitable for the exterior protection and decoration of both new buildings and in works of urban renovation. QUARZ ONE may be tinted with the arteMURI tintometric system.

Benefits

high resistance to friction and washing
high resistance to weathering and UV rays
excellent coverage
ease of application

Specifications

Exterior wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional and various kinds of concrete conglomerates can be finished with the filling, high-coverage and high-resistance to washing, acrylic, fine micro-decoration QUARZ ONE from Fornaci Calce Grigolin, product based on acrylic copolymers in watery dispersion, light-resistant pigments and selected inerts. The minimum consumption of this product is equal to 0.24 l/m² in two coats.

Consumption and packaging

QUARZ ONE is supplied in 5 and 15 l. buckets. The minimum consumption of this product is equal to 0.24 l/m² in two coats.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled. In the case of walls which are already painted with a dark shade of colour, difficult to cover or with an irregular and uneven surface, perform a pre-treatment with the structural UNI KA paint, with an average particle size of 0.3 mm. Always evaluate the surface conditions before using the adequate preparation with an acrylic specific base, like UNO FIX, PRIMO or ONE MICRO or with the solvent-based special base PRG SL T or PRG SL P.

Product Preparation

For brush applications, dilute with max. 25% by volume of water for the first coat

and with max. 20% for the second one. For roller applications, dilute with max. 12% by volume of water. In both cases, the product should be thoroughly mixed.

Application

Apply a first coat, taking care to distribute the product uniformly over the surface. After about 8 hours, proceed with the application of the second coat, crossing the direction of application.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. After the application, the exterior surface should be protected from direct rain until fully dry (on average, 48 h.) Prepare a quantity of material sufficient for application in one pass. If different batches of product are used, mix them together to avoid formation of nuance differences. Avoid applying different product batches onto the same surface and finish the wall portion with the same batch, then start work on the cornering wall with a fresh batch of product.

Product adhesion onto the surface is not guaranteed when the application is made on surfaces which show traces of saline efflorescence or which are subjected to humidity, which is why a preventive curing intervention is required. Immediately after use rinse tools and equipment with water. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|---|--|
| Binder type | copolymers in watery dispersion |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.650 ± 30 g/l |
| Viscosity | 20.000 ± 2.000 cP |
| Application | brush, roller |
| Consumption | approx. 200 g/m ² per coat (0,12 l/m ²) |
| Theoretical yield | 4.1 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Paint for exterior walls with mineral surfaces – A category EU limit values for sub-category c type BA 40 g/l (2010) This product contains a maximum of 40 g/l COV |
| Decoration on the product | 8 hrs. |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 11998) | >10.000 cycles, super-high resistance to rubbing |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | $W < 0,5 \text{ kg/m}^2 \cdot \text{h}^{0,5} \text{ e } S_d < 2 \text{ m}$ |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class II (average), S_d between 0,14 and 1,4 m |
| Permeability to liquid water (UNI EN 1062-3) | Class I (low), $w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$ |

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



arteMURI
1 acrylic

UNI-KA

Anti-algae, structural finish with average particle size



Product description and fields of use

UNI KA is a filling micro-decoration based on fine quartz, based on acrylic copolymers in aqueous dispersion, color pigments resistant to light and to UV and selected siliceous fillers. The product has a high filling and covering power, it is very resistant to alkali, weathering and a low resistance to dirt. Moreover, it is easy to apply and it has a high filling capacity which gives the surface onto which it is applied a high water repellence without compromising the permeability to water vapor.

UNI KA is thus suitable for outdoor applications, on mortar plasters based on hydraulic lime-binder, premixed and traditional, finished and concrete conglomerates. Particularly, it protects and decorates of both new buildings and in works of urban renovation. It may also be used to pre-treat surfaces which are difficult to cover, irregular and uneven, internal, where a rough effect is intended, like fine mortar, on smooth surfaces like plasterboard, paintings and concrete curbs.

UNI KA may be tinted with the arteMURI tintometric system.

Benefits

high resistance to friction and washing
base and finish with a filling and structural effect
anti-algae protection
high resistance to weathering and UV rays

Specifications

Exterior wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional and various kinds of concrete conglomerates can be

finished with the filling, high-coverage and high-resistance to washing, acrylic, micro-decoration UNI KA from Fornaci Calce Grigolin, product based on acrylic copolymers in watery dispersion, light-resistant pigments and selected inerts. The minimum consumption of this product is equal to 0.28 l/m² in two coats.

Consumption and packaging

UNI KA is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.28 l/m² in two coats.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled.

Always evaluate the surface conditions before using the adequate preparation with an acrylic specific base, like UNO FIX, PRIMO or ONE MICRO or with the solvent-based special base PRG SL T or PRG SL P.

Product Preparation

For brush applications, dilute with max. 20% by volume of water for the first coat

and with max. 15% for the second one. For roller applications, dilute with max. 5% by volume of water. In both cases, the product should be thoroughly mixed.

Application

Apply a first coat, taking care to distribute the product uniformly over the surface. After about 6 hours, proceed with the application of the second coat.

Important Notes

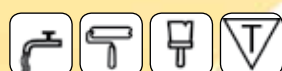
Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. After the application, the exterior surfaces should be protected from direct rain until fully dry (on average, 48 h.) Prepare a quantity of material sufficient for application in one pass. If different batches of product are used, mix them together to avoid formation of nuance differences. Avoid applying different product batches onto the same surface and finish the wall portion with the same batch, then start work on the cornering wall with a fresh batch of product.

Product adhesion onto the surface is not guaranteed when the application is made on surfaces which show traces of saline efflorescence or which are subjected to humidity, which is why a preventive curing intervention is required. Immediately after use rinse tools and equipment with water. For strong colors, avoid the use of UNI KA finish. Use products with fine particle size of the same acrylic class in order to obtain an improved aesthetic result.

Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|---|--|
| Binder type | acrylic copolymers |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.700 ± 30 g/l |
| Viscosity | 37.000 ± 3.000 cP |
| Application | brush, roller |
| Consumption | approx. 230 g/m ² per coat (0,14 l/m ²) |
| Theoretical yield | 3.6 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Paint for exterior walls with mineral surfaces – A category EU limit values for sub-category c type BA 40 g/l (2010) This product contains a maximum of 40 g/l COV |
| Decoration on the product | 8 hrs. |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 11998) | >10.000 cycles, super-high resistance to rubbing |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | $W < 0,5 \text{ kg/m}^2 \cdot \text{h}^{0,5}$ e $S_d < 2 \text{ m}$ |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class II (average), S_d between 0,14 and 1,4 m |
| Permeability to liquid water (UNI EN 1062-3) | Class I (low), $w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$ |



arteMURI
1 acrylic

BETON-ONE

Protective anti-algae paint for concrete



Suitable as anticarbonation barrier
(UNI EN 1062-6:2003)

Product description and fields of use

BETON-ONE is a waterproof finish, with a satin look and velvet feel, based on styrene-acrylic copolymers in watery dispersion, selected fillers and pigments stable to light. It is resistant to the passage of carbon and sulfur dioxide and prevents the accelerated aging and the corrosion of the iron armature contained on the inside. Thanks to its high water repellence and the mixture of active ingredients that has, it provides effective protection and prevention of dry film against the growth of mold, fungus and algae. Moreover, it adheres well on smooth surfaces and avoids stripping phenomena. It is easy to apply, it has a high power of surface coverage, including on projects in non-homogeneous cement and thanks to its properties, it embellishes the concrete object. It is therefore suitable for application on the outside on conglomerate structures in concrete and cement, placed in a cast or prefabricated slabs and other alkaline surfaces, such as fiber cement composites. BETON-ONE may be tinted with the arteMURI tintometric system.

Advantages

high resistance to friction and washing;
high resistance to weather factors and UV rays
excellent adhesion on smooth surfaces and cement
anticarbonation barrier
opaque appearance
excellent coverage
anti-algae protection

Specifications

External wall surfaces, such as conglomerates in concrete, cement and fiber cement of various kinds, can be finished with the protective anticarbonation painting, superwashable, with high adhesion and coverage, BETON ONE from Fornaci Calce Grigolin, product based on styrene-acrylic copolymers in watery dispersion, light-resistant pigments and selected fillers. The minimum consumption for the product is equal to 0.16 l/m² in two coats.

Consumption and packaging

BETON ONE is supplied in 15 l. buckets. The minimum consumption for the product is equal to 0.16 l/m² in two coats.

Rules on conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface preparation

New wall surfaces must be cured, dry, free from dust and little-adhesive parts. To level and plaster imperfections, such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and remove the completely degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO

Performance characteristics

| | |
|---|--|
| Binder type | acrylic copolymers |
| Texture | paste/fine/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.400 ± 30 g/l |
| Viscosity | 15.000 ± 2.000 cP |
| Application | brush, roller, spray or airless |
| Consumption | approx. 110 g/m ² per layer (0,08 l/m ²) |
| Theoretical yield | 6,2 m ² /l in two layers |
| COV Content (DIR. 2004/42/CE) | Painting for exterior walls of mineral surface- A category EU limit values for sub-category c, type BA 40 g/l (2010) This product contains a maximum of 40 g/l COV |
| Decoration on the product | 6 hrs. |
| Degree of gloss (UNI EN ISO 2813) | 5-10 gloss, opaque |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 11998) | >10,000 cycles, highly resistant to rubbing |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | $W < 0,5 \text{ kg/m}^2 \cdot \text{h}^{0,5}$ i $S_d < 2 \text{ m}$. |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class II (average), S_d between 0.14 and 1.4 m |
| Permeability to liquid water (UNI EN 1062-3) | Class I (low), $w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$ |
| Determination of permeability to carbon dioxide (UNI EN 1062-6:2003) | $S_{d_{CO_2}} = 348 \text{ m}$ Effective anticarbonation barrier Report N° 138 / L of 06/27/2008 GFC Chimica S.r.l. Ferrara |



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arteMURI
1 acrylic

BETON-ONE

detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled. In the case of wall surfaces already painted with a dark color, difficult to cover or irregular and uneven surfaces, it is advisable to make a pre-treatment with structural painting UNI-KA in average grain size 0.3 mm. Always perform an evaluation of conditions of the surface in order to use a preparation with the specific base of the acrylic class, type UNO FIX, PRIMO or ONE MICRO, or special solvent base PRG SL T or PRG SL P. It is possible to directly apply BETON-ONE on the concrete conglomerate when it was recently built and if it is in excellent condition. In this case, the first layer of the product should be diluted to 100-200% in order to properly adhere to the surface.

Product Preparation

In the case of applications with a brush, dilute 25% by volume of water for the first layer, with 20% for the second. For applications with a roller, dilute up to 5% by volume with water. In both cases, the product should be thoroughly mixed.

Application

Apply a first coat taking care to evenly distribute the product over the entire surface. After about 6 hours, proceed with the application of the second coat, taking care to cross the senses of application.

Important Notes

Do not apply when ambient or surface temperature is lower than +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. After application, the external surfaces must be protected from rain until completely dry (usually 48 hours). Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next. The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Rinse all gear and equipment with water immediately after use. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

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arteMURI
1 acrylic

ONE COAT

0.7-1-1.2-1.5-1.8-2.5 mm
Anti-algae acrylic intonachino for exterior surfaces



Valid for grain 1,5 - 2 - 3 mm

Product description and fields of use

ONE COAT is a fiber-reinforced in-depth finishing, composed of acrylic copolymers in aqueous dispersion, color pigments, resistant to UV and controlled and verified mineral fillers. The product has an intonachino effect, it is available in different particle sizes and has a mixture of active ingredients for a broad spectrum of action that goes against the proliferation of molds, fungi and algae on the film of dry product. Moreover, it is easy to apply due to its excellent workability, is resistant to alkali and weathering, has a low dirt retention and a good water repellence. ONE COAT is a special coating suitable for the protection and decoration of the exterior surfaces of new buildings and renovation work in urban construction. Moreover, it is suitable for application

onto base plasters, based on hydraulic lime-binder, premixed and traditional, insulation coating systems like thermo-plasters, concrete conglomerates and cement skim plasters. ONE COAT may be tinted with the arte-MURI tintometric system.

ETA-certified product for thermal insulation systems.

Advantages

intonachino effect
various sizes
anti-algae protection
ease of application
high resistance to weathering and UV rays

Specifications

External wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional, skim plasters, insulation coating systems and various kinds of concrete conglomerates, can be finished with the rustic-effect, anti-algae, fiber-reinforced intonachino ONE COAT from Fornaci Calce Grigolin, product based on acrylic copolymers in watery dispersion, light-resistant pigments and selected fillers. The finished product has a minimum consumption equal to 1.6 kg./m² up to 4.0 kg./m², depending on the size of employed particles.

Technical data

| | |
|---|--|
| Binder type | acrylic copolymers in watery dispersion |
| Texture | paste/dense/in various particle sizes |
| Specific weight (ISO 2811 at 23°C) | 1.750 ± 100 g/l |
| Viscosity | 180.000 ± 30.000 cP |
| Application | spatula and plastic, metal and sponge float |
| Consumption | See Table 1 |
| Theoretical yield | See Table 1 |
| COV Content (DIR. 2004/42/CE) | Painting for exterior walls of mineral surface- A category EU limit values for sub-category c, type BA 40 g/l (2010) This product contains a maximum of 40 g/l COV |
| Decoration on the product | 16 hrs. |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | $W < 0,5 \text{ kg/m}^2 \cdot \text{h}^{0,5} \text{ e } S_d < 2 \text{ m}$ |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class II (average), S_d between 0.14 and 1.4 m |
| Permeability to liquid water (UNI EN 1062-3) | Class I (low), $w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$ |

ETA-certified product for thermal insulation systems

TABLE 1

| Particle size | Coats | Consumption | Yield |
|---------------|------------|---------------------------|------------------------------|
| 0,7 mm | two layers | 2,6-3,2 kg/m ² | 0,31-0,39 m ² /kg |
| 1 mm | one layer | 1,6-2,0 kg/m ² | 0,50-0,60 m ² /kg |
| 1,2 mm | one layer | 1,8-2,2 kg/m ² | 0,45-0,55 m ² /kg |
| 1,5 mm | one layer | 2,3-2,8 kg/m ² | 0,35-0,45 m ² /kg |
| 1,8 mm | one layer | 3,0-3,5 kg/m ² | 0,28-0,33 m ² /kg |
| 2,5 mm | one layer | 3,6-4,0 kg/m ² | 0,25-0,28 m ² /kg |



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arteMURI
1 acrylic

ONE COAT

0,7-1-1,2-1,5-1,8-2,5 mm

Consumption and packaging

ONE COAT is supplied in 25 kg. buckets. The finished product has a minimum consumption equal to 1.6 kg./m² up to 4.0 kg./m², depending on the size of employed particles.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned and dry. Remove any little adherent parts and traces of dust and thoroughly clean the surface prior to the application. If necessary, even out and plaster surface imperfections, such as holes, cracks or crannies, with the appropriate restoration product or mortar. In case of wall surfaces already coated with quartz paint or in-depth coatings, all traces of paint and coating not perfectly adherent should be removed.

Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be cleaned, stuccoed and then leveled. Next, prepare the base according to surface conditions with the pigmented acrylic base PRIMO or with the universal filling base PRIMER UNI-KO GM.

Product Preparation

ONE COAT is ready-to-use. It may be diluted up to 2% by volume of water. The product should be thoroughly mixed until it reaches a homogenous consistency.

Application

Spread the product evenly on the surface with a metallic spatula. Before the product starts to form a surface film, finish with circular movements using the spatula or plastic or sponge float, to obtain the desired results. If you are using the fine particle size ONE COAT 0.7 mm. in two coats, or if it is necessary to apply an additional layer of product, it is recommended that you wait for the first coat to dry completely (usually after about 16 hours).

Important Notes

Do not apply when ambient or surface temperature is lower than +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. After application, the external surfaces must be protected from rain until completely dry (usually 48 hours). Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next. The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Rinse all gear and equipment with water immediately after use.

Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

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arteMURI
2 siloxanic

PRIMER 2W

Water-based transparent siloxane base



Product description and fields of use

PRIMER 2W is a water-based, acryl-siloxane impregnation base, with high-penetration fine particles, odorless, transparent and with low VOC content, suitable for use on exterior and interior wall surfaces.

The excellent resistance to alkali, the high bonding power and the ability to penetrate inside the pores of the treated support allow the product to contain the crumbling and the loose parts of any cementous support and confer high water repellence to the painting cycle. With all these features, PRIMER 2W is the most indicated water-based primer for quality consolidation cycles that require a high protection of the outer layer, like siloxane, acrylic-siloxane and silanized finishes.

Moreover, it is suitable for application on any type of wall surface, such as cement plaster, premixed and traditional, civil finished and non-finished, concrete conglomerates and gypsum surfaces of various kinds.

Advantages

- high penetration
- consolidating property
- resistance to alkali
- regulation of absorption
- excellent water repellence

Specifications

Exterior and interior wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional and various kinds of concrete conglomerates and gypsum surfaces, can be finished with the water-based, high-penetration power, acryl-siloxane, consolidating primer PRIMER 2W from Fornaci Calce Grigolin, product based on siloxane and acrylic polymers in watery dispersion, suited for the preparation of surfaces in intervention cycles with siloxanic finishes. The minimum consumption of this product is equal to 0.10 l./m².

Consumption and packaging

PRIMER 2W is supplied in 5 and 20 l. buckets. The minimum consumption of this product is equal to 0.10 l./m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and

completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled.

Product Preparation

PRIMER 2W is ready-to-use, but it must be thoroughly mixed before application. In the case of low absorbing surfaces, in order to facilitate the penetration and proper adjustment of the absorption, it is possible to dilute PRIMER 2W with water up to 100% by volume.

Application

Apply evenly with a brush. However, it is also possible to apply the product by roller or by spray.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | acrylic and siloxane polymers in watery dispersion |
| Texture | liquid/transparent |
| Specific weight (ISO 2811 at 23°C) | 1.020 ± 20 g/l |
| Application | preferably by brush, also possible by roller, spray or airless |
| Consumption | approx. 100 g/m ² (0,10 l/m ²) |
| Theoretical yield | 10 m ² /l |
| COV Content (DIR. 2004/42/CE) | Fixing primer – A category EU limit values for sub-category h type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 4 hrs. |



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arteMURI
2 siloxanic

F2 COPRENTE

Pigmented acryl-siloxane base



Product description and fields of use

F2 COPRENTE is a pigment base, based on siloxane and acrylic polymers in water dispersion, inorganic pigments and inerts with selected particle size, specific to the preparation of exterior and interior wall surfaces.

The product is alkali resistant, it has an excellent binding and adhesion power, high filling features and an exceptional ability to standardize the irregular absorption of the treated wall surface. Moreover, thanks to its covering power, in many cases it allows saving one layer of the final painting.

F2 COPRENTE is suitable for application on any type of wall surface, but is used successfully as background imprimatura, white or colored, on mortar plasters based on hydraulic lime-binder, rough or finished, irregular and difficult to fill, like old painting in strong shades or where there are traces of stucco work and small imperfections, to be subsequently completed by finishes, intonachino, thick coatings in light tones and on painting with bright tones to cover limited surfaces. Moreover, it is particularly suitable for application on skim plasters and thermal insulation systems, as it has the property to create a rough surface that promotes adhesion of subsequent layers of any thick finishes of the siloxane class.

F2 COPRENTE may be tinted with the arteMURI tintometric system.



Advantages

high water repellence
background uniformity and insulation
good coverage
base coat for thick finishes

Specifications

The wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional, rough or finished and various kinds of concrete conglomerates and gypsum surfaces, may be finished with the interior and exterior, high-coverage, acryl-siloxane pigmented base F2 COPRENTE from Fornaci Calce Grigolin, product based on siloxane and acrylic polymers in watery dispersion, suited for the preparation of surfaces in cycles of intervention on siloxane finishes. The minimum consumption of this product is equal to 0.12 l/m².

Consumption and packaging

F2 COPRENTE is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.12 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product

or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled.

Product Preparation

In the case of applications with a roller, dilute 15% by volume of water and for applications with a brush, dilute with approx. 20-25% by volume with water. In both cases, the product should be thoroughly mixed.

Application

Apply a first coat, taking care to distribute the product uniformly over the surface. If necessary, apply a second coat to better level the surface. At this point, proceed with the application of the finish.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | acrylic and siloxane polymers in watery dispersion |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.500 ± 30 g/l |
| Viscosity | 16.000 ± 2.000 cP |
| Application | brush, roller |
| Consumption | approx. 180 g/m ² (0,12 l/m ²) |
| Theoretical yield | 8,3 m ² /l |
| COV Content (DIR. 2004/42/CE) | Fixing primer – A category EU limit values for sub-category h type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 6 hrs. |

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XILAN DUEL

Anti-algae, smooth siloxane finish,
for exteriors



Product description and fields of use

XILAN DUEL is a high-coverage, siloxane, water paint, based on siloxane polymer dispersed in water, mineral pigments resistant to light and UV and natural charges with selected particle size. The product has a high water repellence, combined with an excellent permeability for water vapor, the best features to be used on any wall surface. It has excellent resistance to alkalis, weathering, a remarkable resistance to friction, washing and a low retention of dirt. In addition, it has a special blend of active ingredients with broad spectrum of action that prevents the surface to develop molds, fungi and algae. XILAN DUEL, therefore, is suitable for outside application on mortar plasters based on hydraulic lime-binder, premixed and traditional, rough or finished, and on concrete conglomerates and it is particularly suitable as a finish for diffu-

sive and dehumidifying plasters for moist masonry. Moreover, it is suitable for the protection and decoration of the external surfaces of new buildings and renovation work in urban construction, even on objects of value and in situations of rehabilitation and restoration of buildings of historical and artistic value. XILAN DUEL may be tinted with the arteMURI tintometric system.

Advantages

finish suitable for application on dehumidifying plasters
high resistance to washing
excellent breathability
excellent water repellence
anti-algae protection
high resistance to weathering and UV rays

Specifications

The exterior wall surfaces, such as mortar plasters, based on hydraulic

lime-binder, premixed and traditional, dehumidifying plasters and various kinds of concrete conglomerates, may be finished with the high-resistant to washing, high-coverage, smooth siloxane finish XILAN DUEL from Fornaci Calce Grigolin, product based on siloxane polymers in watery dispersion, resistant pigments and micronised selected charges. The minimum consumption of this product is equal to 0.20 l./m².

Consumption and packaging

XILAN DUEL is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.20 l./m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Technical data

| | |
|---|--|
| Binder type | siloxane polymers in emulsion, waterproof modified |
| Texture | paste/soft/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.500 ± 30 g/l |
| Viscosity | 13.000 ± 2.000 cP |
| Application | brush, roller, spray or airless |
| Consumption | approx. 150 g/m ² (0,10 l/m ²) |
| Theoretical yield | 5 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Painting for exterior walls of mineral surface- A category EU limit values for sub-category c, type BA 40 g/l (2010) This product contains a maximum of 40 g/l COV |
| Decoration on the product | 8 hrs. |
| Degree of gloss (UNI EN ISO 2813) | 5-10 gloss, opaque |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 11998) | >5,000 cycles, high resistance |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high), Sd < 0,14 m |
| Permeability to liquid water (UNI EN 1062-3) | Class I (low), w < 0,1 kg/m ² *h ^{0.5} |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | W < 0,5 kg/m ² *h ^{0.5} e Sd < 2 m |



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arteMURI
2 siloxanic

XILAN
DUEL

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled. In the case of wall surfaces already painted with a dark color, difficult to cover or irregular and uneven surfaces, it is advisable to make a pre-treatment with the structural acryl-siloxane finish BIS in average grain size. Always evaluate the surface conditions by using the adequate preparation with a base specific to the siloxane class, like PRIMER 2W or F2 COPRENTE.

Product Preparation

Dilute XILAN DUEL with approx. 35% by volume of water for the first layer, with 30% for the second. For applications with a roller, dilute up to 20% by volume with water. In both cases, the product should be thoroughly mixed.

Application

Apply a first coat, taking care to distribute the product uniformly over the surface. After about 8 hours, proceed with the application of the second coat.

Important Notes

Do not apply when ambient or surface temperature is lower than +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. After application, the external surfaces must be protected from rain until completely dry (usually 48 hours). Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next. The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Rinse all gear and equipment with water immediately after use. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

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XIL2 FILL

Anti-algae, acryl-siloxane filling
finish for exteriors



Product description and fields of use

XIL2 FILL is a high-coverage, high-fill, special micro-coating, based on acrylic copolymer and siloxane resins dispersed in water, precious colored pigments resistant to light and UV and natural charges with selected particle size. The product has a high water repellence, combined with an excellent permeability for water vapor, the best features to be used on any wall surface. It has excellent resistance to alkalis, weathering, a remarkable resistance to friction, washing and a low retention of dirt. In addition, it has a special blend of active ingredients with broad spectrum of action that prevents the surface to develop molds, fungi and algae. XIL2 FILL, therefore, is a highly protective finish and decoration suitable for outside application on mortar plasters based on hydraulic lime-binder, premixed and traditional, rough or finished, and on concrete conglomerates on new

buildings and renovation work in urban construction.

XIL2 FILL may be tinted with the arteMURI tintometric system.

Advantages

high resistance to washing
excellent breathability
excellent water repellence
anti-algae protection
excellent coverage
high resistance to weathering and UV rays

Specifications

PThe exterior wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional, finished and various kinds of concrete conglomerates, may be finished with the exterior, high-resistant to washing, water-repellent, extremely high permeable to water vapor, high-coverage and filling power, anti-algae, acryl-siloxane finish XIL2 FILL from Fornaci Calce Grigolin, product based on acrylic and siloxane binders in watery dispersion, light-resistant pigments and micronised selected charges. The minimum consumption of this product is equal to 0.22 l./m².

Consumption and packaging

XIL2 FILL is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.22 l./m².

Technical data

| | |
|---|--|
| Binder type | siloxane polymers in emulsion in water dispersion |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.620 ± 30 g/l |
| Viscosity | 22.000 ± 2.000 cP |
| Application | brush, roller |
| Consumption | approx. 165 g/m ² (0,11 l/m ²) |
| Theoretical yield | 4,5 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Painting for exterior walls of mineral surface- A category EU limit values for sub-category c, type BA 40 g/l (2010) This product contains a maximum of 40 g/l COV |
| Decoration on the product | 8 hrs. |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 11998) | >10,000 cycles, highly resistant to friction |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high), Sd < 0,14 m |
| Permeability to liquid water (UNI EN 1062-3) | Class I (low), w < 0,1 kg/m ² *h ^{0,5} |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | W < 0,5 kg/m ² *h ^{0,5} e Sd <2 m |



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XIL2 FILL

Product Preparation

Dilute XIL2 FILL with approx. 30% by volume of water for the first layer, with 25% for the second one. For applications with a roller, dilute up to 15% by volume with water. In both cases, the product should be thoroughly mixed.

Application

Apply a first coat, taking care to distribute the product uniformly over the surface. After about 8 hours, proceed with the application of the second coat.

Important Notes

Do not apply when ambient or surface temperature is lower than +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. After application, the external

surfaces must be protected from rain until completely dry (usually 48 hours). Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next. The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Rinse all gear and equipment with water immediately after use. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

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arteMURI 2 siloxanic

BIS

Anti-algae acryl-siloxane structural finish with average grain size



Product description and fields of use

BIS is an acryl-siloxane filling micro-coating, based on acrylic copolymer and siloxane resins dispersed in water, colored pigments resistant to light and UV and silicate charges with selected particle size. The product has a high resistance to alkalis, weathering and has a high resistance to crumbling, to washing and a low retention of dirt. In particular, it has an excellent permeability for water vapor, combined with a low absorption of capillary waters. Moreover, it is easy to apply both with brush and with a roller, and it shows excellent dilatation and filling capacities. BIS, therefore, is a highly protective finish and decoration suitable for outside application on mortar plasters based on hydraulic lime-binder, premixed and traditional, rough or finished, and on concrete conglomerates on new buildings and renovation work in urban construction. It may also be used as base and grip coat for surfaces which are difficult to cover or irregular, to be subsequently finished with other products of the same siloxane class. BIS may be tinted with the arteMURI tintometric system.

Advantages

- high resistance to washing
- anti-algae protection
- base and finish with high filling capacity
- excellent breathability
- excellent water repellence



Specifications

The exterior wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional, finished and various kinds of concrete conglomerates, may be finished with the exterior, high-resistant to washing, water-repellent, extremely high permeable to water vapor, high-coverage and filling power, anti-algae, acryl-siloxane structural finish and base BIS from Fornaci Calce Grigolin, product based on special copolymers in watery dispersion, resistant pigments and selected charges. The minimum consumption of this product is equal to 0.28 l/m².

Consumption and packaging

BIS is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.28 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled. In the case of wall surfaces already painted with a dark color, difficult to cover or irregular and uneven surfaces, it is advisable to make a pre-treatment with the structural acryl-siloxane finish BIS in average grain size. Always evaluate the surface conditions

by using the adequate preparation with a base specific to the siloxane class, like PRIMER 2W or F2 COPRENTE.

Product Preparation

For applications with brush, dilute with approx. 20% by volume of water for the first layer, with 15% for the second one. For applications with a roller, dilute up to 5% by volume with water. In both cases, the product should be thoroughly mixed.

Application

Apply a first coat, taking care to distribute the product uniformly over the surface. After about 8 hours, proceed with the application of the second coat or with another finish of the siloxane class.

Important Notes

Do not apply when ambient or surface temperature is lower than +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. After application, the external surfaces must be protected from rain until completely dry (usually 48 hours). Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next. The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Rinse all gear and equipment with water immediately after use.

Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

Hlavní vlastnosti

| | |
|---|--|
| Typ pojiva | siloxanové a akrylové polymery ve vodní disperzi |
| Vzhled | pastový/drsný/pigmentovaný |
| Specifická hmotnost (ISO 2811 při 23°C) | 1.700 ± 30 g/l |
| Viskozita | 35.000± 3.000 cP |
| Nanášení | štetcem, válečkem |
| Teoretická spotřeba | asi 230 g/m ² na vrstvu (0,14 l/m ²) |
| Teoretická vydatnost | 3,6 m ² /l ve dvou vrstvách |
| Obsah těkavých organických látek VOC (směrnice 2004/42/ES) | Fasádní barva na minerální podklady - kat.. A Mezní hodnoty EU pro podkategorie c typ BA 40 g/l (2010) Tento výrobek obsahuje maximálně 40 g/l VOC |
| Přetření | po 8 hodinách |
| Klasifikace odolnosti při oděru za mokra (UNI 10560 a/nebo UNI EN ISO 119998) | >10.000 cyklů, vysoká odolnost vůči oděru |
| Propustnost vodních par (ČSN EN ISO 7783-2) | Třída I (vysoká), Sd < 0,14 m |
| Pronikání vody v kapalném stavu (ČSN EN 1062-3) | Třída I (nízká), w < 0,1 kg/m ² ·h ^{0.5} |
| Vhodný na ochranu fasád, protože splňuje teorii KÜNZLE (DIN 18550) | W < 0,5 kg/m ² ·h ^{0.5} e Sd < 2 m |

XIL2 INTO

0.7-1-1.2-1.5-1.8-2.5 mm

Anti-algae, acryl-siloxane intonachino for exteriors



ETA
05/0196

Valid for grain 1,5 - 2 - 3 mm

Product description and fields of use

XIL2 INTO is a special fiber-reinforced thick finish with a variable size intonachino effect, consisting of acrylic copolymers and siloxane resins in water dispersion, color pigments resistant to light and UV and controlled and selected mineral fillers. The siloxane component gives the product a high permeability to water vapor together with a low water absorption. It is alkali-resistant, to weathering and it has a low dirt retention. In addition, it has a special blend of active ingredients with broad spectrum of action that prevents the surface to develop growth of molds, fungi and algae. The product is easily applied and forms a protective layer with exceptional performance characteristics, as a porous, breathable, waterproof and highly resistant coating on the outside, which adheres perfectly thanks also to the

acrylic component even on old paints of mineral or synthetic nature.

All these features make XIL2 INTO a special coating suitable for outer protection and decoration of any mineral surface, base plaster of hydraulic lime-binder, premixed and traditional, finished or not, in the systems of insulation type thermoplasters and coatings, concrete conglomerates and cementous skim plasters. In particular, it is suitable for use on historic facades, for the plastering of new buildings, in renovation works on urban construction and on restoration plaster

which require a low resistance to vapor diffusion.

XIL2 INTO may be tinted with the arteMURI tintometric system.

ETA-certified product for thermal insulation systems.

Advantages

anti-algae protection
intonachino effect
various particle sizes
ease of application
excellent water repellence
excellent breathability

Technical data

| | |
|---|--|
| Binder type | acrylic and siloxane polymers in watery dispersion |
| Texture | paste/dense/in various particle sizes |
| Specific weight (ISO 2811 at 23°C) | 1.750 ± 100 g/l |
| Viscosity | 180.000 ± 30.000 cP |
| Application | spatula and plastic, metal and sponge float |
| Consumption | See Table 1 |
| Theoretical yield | See Table 1 |
| COV Content (DIR. 2004/42/CE) | Painting for exterior walls of mineral surface- A category EU limit values for sub-category c, type BA 40 g/l (2010) This product contains a maximum of 40 g/l COV |
| Decoration on the product | 16 hrs. |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high), Sd < 0,14 m |
| Permeability to liquid water (UNI EN 1062-3) | Class I (low), w < 0,1 kg/m ² h ^{0.5} |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | W < 0,5 kg/m ² h ^{0.5} e Sd < 2 m |

ETA-certified product for thermal insulation systems

TABLE 1

| Particle size | Layers | Consumption | Yield |
|---------------|-----------|---------------------------|------------------------------|
| 0,7 mm | two coats | 2,6-3,2 kg/m ² | 0,31-0,39 m ² /kg |
| 1 mm | one coat | 1,6-2,0 kg/m ² | 0,50-0,60 m ² /kg |
| 1,2 mm | one coat | 1,8-2,2 kg/m ² | 0,45-0,55 m ² /kg |
| 1,5 mm | one coat | 2,3-2,8 kg/m ² | 0,35-0,45 m ² /kg |
| 1,8 mm | one coat | 3,0-3,5 kg/m ² | 0,28-0,33 m ² /kg |
| 2,5 mm | one coat | 3,6-4,0 kg/m ² | 0,25-0,28 m ² /kg |



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XIL2 INTO

0,7-1-1,2-1,5-1,8-2,5 mm

Specifications

The exterior wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional, finished or not, skim plasters, insulation coating systems and various kinds of concrete conglomerates, may be finished with rustic-effect, anti-algae, fiber-reinforced intonachino XIL2 INTO from Fornaci Calce Grigolin, product based on acryl-siloxane copolymers in watery dispersion, resistant pigments and selected charges. The finished product has a minimum consumption equal to 1.6 kg./m² up to 4.0 kg./m², depending on the size of employed particles.

Consumption and packaging

XIL2 INTO is supplied in 25 kg. buckets. The finished product has a minimum consumption equal to 1.6 kg./m² up to 4.0 kg./m², depending on the size of employed particles.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned and dry. Remove any little adherent parts and traces of dust and thoroughly clean the surface prior to the application. If necessary, even out and plaster surface imperfections, such as holes, cracks or crannies, with the appropriate restoration product or mortar. In case of wall surfaces already coated with quartz paint or in-depth coatings, all traces of paint and coating not perfectly adherent should be removed. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be cleaned, stuccoed and then leveled. Next, prepare the base according to surface conditions with the pigmented acrylic base PRIMO or with the universal filling base PRIMER UNI-KO GM.

Product Preparation

XIL2 INTO is ready-to-use, but it may be diluted with approx. 2% by volume of water, taking care to mix the product thoroughly, until obtaining a homogeneous mixture.

Application

Spread the product with a metallic spatula, taking care to distribute it uniformly over the surface. Before the product starts to form a film, finish with circular movements, using a spatula or a plastic or sponge float, to get the desired results. If you are using the fine particle size XIL2 INTO 0.7 mm. in two coats, or if it is necessary to apply an additional layer of product in order to achieve a more homogeneous effect, it is recommended to wait for the first coat to be completely dry.

Important Notes

Do not apply when ambient or surface temperature is lower than +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. After application, the external surfaces must be protected from rain until completely dry (usually 48 hours). Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next. The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Rinse all gear and equipment with water immediately after use.

Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

arteMURI
2 siloxanic

DUE SI

0.7-1-1.2-1.5-1.8-2.5 mm
Anti-algae silanized intonachino
for exteriors



Product description and fields of use

DUE SI is a thick, fiber reinforced, silanized finishing with an intonachino effect of different grain sizes, made from acrylic and siloxane binders in aqueous dispersion, a solution of potassium silicate, colored pigments resistant to light and UV and mineral fillers selected and controlled.

The acryl-siloxane component gives the product a high permeability to water vapor, together with a low water absorption, while the potassium silicate confers mineral characteristics and high adhesion to the finish. It presents excellent resistance to alkalis, weathering and a low dirt retention. In addition, it has a special blend of active ingredients with broad spectrum of action that prevents the surface from the growth of molds, fungi and algae.

DUE SI is easily applied and forms a protective coating with exceptional performance characteristics, porous,

breathable, water repellent and with high outer resistance.

All these features make DUE SI a special coating for the outer protection and decoration of any mineral surface, base plaster based on hydraulic lime-binder, premixed and traditional, finished or not, in insulation systems of thermo-plasters and coatings, concrete conglomerates and cement skim plasters.

In particular, it is suitable for use on historic facades, plasters of new buildings, renovation work on urban construction and plaster restoration

which require a low resistance to vapor diffusion. Adheres well even on old paintings of a mineral or synthetic nature. DUE SI may be tinted with the arteMURI tintometric system.

Advantages

- anti-algae protection
- intonachino effect
- various sizes
- ease of application
- excellent breathability
- good water repellence

Technical data

| | |
|---|--|
| Binder type | acrylic and siloxane polymers and potassium silicate solution |
| Texture | paste/dense/in various particle sizes |
| Specific weight (ISO 2811 at 23°C) | 1.740 ± 100 g/l |
| Viscosity | 180.000 ± 30.000 cP |
| Dilution | ready-to-use, dilutable with max. 2% of weight in water |
| Application | spatula and plastic, metal and sponge float |
| Consumption | See Table 1 |
| Theoretical yield | See Table 1 |
| COV Content (DIR. 2004/42/CE) | Painting for exterior walls of mineral surface- A category EU limit values for sub-category c, type BA 40 g/l (2010) This product contains a maximum of 40 g/l COV |
| Decoration on the product | 16 hrs. |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high), Sd < 0,14 m |
| Permeability to liquid water (UNI EN 1062-3) | average, w between 0,1 and 0,5 kg/m ² ·h ^{0,5} |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | W < 0,5 kg/m ² ·h ^{0,5} e Sd < 2 m |

TABLE 1

| Particle size | Layers | Consumption | Yield |
|---------------|-----------|---------------------------|------------------------------|
| 0,7 mm | two coats | 2,6-3,2 kg/m ² | 0,31-0,39 m ² /kg |
| 1 mm | one coat | 1,6-2 kg/m ² | 0,50-0,60 m ² /kg |
| 1,2 mm | one coat | 1,8-2,2 kg/m ² | 0,45-0,55 m ² /kg |
| 1,5 mm | one coat | 2,3-2,8 kg/m ² | 0,35-0,45 m ² /kg |
| 1,8 mm | one coat | 3,0-3,5 kg/m ² | 0,28-0,33 m ² /kg |
| 2,5 mm | one coat | 3,6-4,0 kg/m ² | 0,25-0,28 m ² /kg |



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DUE SI

0,7-1-1,2-1,5-1,8-2,5 mm

Specifications

The exterior wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional, finished or not, skim plasters, insulation coating systems and various kinds of concrete conglomerates, may be finished with rustic-effect, anti-algae, fiber-reinforced intonachino DUE SI from Fornaci Calce Grigolin, product based on acryl-siloxane copolymers in watery dispersion, resistant pigments and selected charges. The finished product has a minimum consumption equal to 1.6 kg./m² up to 4.0 kg./m², depending on the size of employed particles.

Consumption and packaging

DUE SI is supplied in 25 kg. buckets. The finished product has a minimum consumption equal to 1.6 kg./m² up to 4.0 kg./m², depending on the size of employed particles.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned and dry. Remove any little adherent parts and traces of dust and thoroughly clean the surface prior to the application. If necessary, even out and plaster surface imperfections, such as holes, cracks or crannies, with the appropriate restoration product or mortar. In case of wall surfaces already coated with quartz paint or in-depth coatings, all traces of paint and coating not perfectly adherent should be removed.

Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be cleaned, stuccoed and then leveled. Next, prepare the base according to surface conditions with the pigmented acrylic base PRIMO or with the universal filling base PRIMER UNI-KO GM.

Product Preparation

DUE SI is ready-to-use, but it may be diluted with approx. 2% by volume of water, taking care to mix the product thoroughly, until obtaining a homogeneous mixture.

Application

Spread the product with a metallic spatula, taking care to distribute it uniformly over the surface. Before the product starts to form a film, finish with circular movements, using a spatula or a plastic or sponge float, to get the desired results. If you are using the fine particle size DUE SI 0.7 mm. in two coats, or if it is necessary to apply an additional layer of product in order to achieve a more homogeneous effect, it is recommended to wait for the first coat to be completely dry.

Important Notes

Do not apply when ambient or surface temperature is lower than +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. After application, the external surfaces must be protected from rain until completely dry (usually 48 hours). Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next. The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Rinse all gear and equipment with water immediately after use.

Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

DOPPIA VELA

Highly water-repellent, anti-algae,
acril-siloxane antique canvas



Product description and fields of use

DOUBLE SAIL is a protective decoration based on acrylic copolymers and siloxane resins in water dispersion, color pigments resistant to light and UV and natural mineral fillers. It has excellent resistance to alkalis, weathering, friction and a low retention of dirt. It shows excellent water repellence combined with a high breathability. In addition, it has a special blend of elements with broad spectrum of action that prevent the media from the growth of molds, fungi and algae. Thanks to a game of color shades, due to the lack of transparency and opacity imparted in application, the product gives the surface an aspect which reproduces the plasters of old and vintage paintings canvas of the past. All these characteristics make of DOUBLE VELA a special finish suitable for the protection and decoration of exteriors and interior applications on mortar plasters

based on hydraulic lime-binder, premixed and traditional, with skim plasters and intonachino, concrete conglomerates and on composites of treated gypsum. In particular, it is suitable for use on any wall surface in civil and professional construction and restoration of historic centers. DOUBLE SAIL may be tinted with the arteMURI tintometric system.

Advantages

antique effect
high resistance to washing
anti-algae protection
excellent breathability
excellent water repellence
ease of application

Specifications

The exterior and interior wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional, skim plasters and intonachino, various kinds of concrete conglomerates, may be finished, after the application of one coat of finishing base of a whiter or lighter shade from the siloxane class, with the antiquing, decorative paint DOUBLE SAIL from Fornaci Calce Grigolin, product based on acril-siloxane copolymers in watery dispersion,

light-resistant pigments and selected charges. The minimum consumption of this product is equal to 0.07 l./m².

Consumption and packaging

DOUBLE SAIL is supplied in 1, 5 and 15 l. buckets. The minimum consumption of this product is equal to 0.07 l./m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then

Technical data

| | |
|---|---|
| Binder type | siloxane and acrylic polymers in watery solution |
| Texture | paste/soft/semi-covering |
| Specific weight (ISO 2811 at 23°C) | 1.100 ± 30 g/l |
| Viscosity | 8.000 ± 1.000 cP |
| Application | brush, swab, sponge float, cloth, marine sponge, etc. |
| Consumption | approx. 75 g/m ² (0,07 l/m ²) |
| Theoretical yield | 14 m ² /l |
| COV Content (DIR. 2004/42/CE) | Painting for decorative effects- A category EU limit values for sub-category I, type BA 200 g/l (2010) This product contains a maximum of 200 g/l COV |
| Decoration on the product | 8 hrs. |
| Degree of gloss (UNI EN ISO 2813) | 5-10 gloss, opaque |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 11998) | >5,000 cycles, high resistance |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high), Sd < 0,14 m |
| Permeability to liquid water (UNI EN 1062-3) | Class I (low), w < 0,1 kg/m ² h ^{0,5} |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | W < 0,5 kg/m ² h ^{0,5} e Sd < 2 m |

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arteMURI
2 siloxanic

DOPPIA VELA

leveled. Subsequently, prepare the surface according to conditions, by using the adequate product specific to the siloxane class, like PRIMER 2W or F2 COPRENTE.

On the surface to be decorated, apply the filling acryl-siloxane finish XIL2 FILL white or in a lighter color than the final one, as a preparation base for the canvas, appropriately diluted with 15% by volume in water for the application by roller and 25-30% for the application by brush. If the surface is already painted with a darker shade, difficult to cover, or if the surface is irregular and uneven, it is advisable to pre-treat it with the acryl-siloxane structural base BIS, always appropriately diluted.

Product Preparation

Dilute the product with about 40-60% by volume of water and mix thoroughly.

Product Application

Apply a layer with the brush, sponge, swab, etc., taking care to distribute the product on the support with a constant working and then shade it with the most appropriate equipment to obtain the desired effect.

Important Notes

For a good aesthetic result, the skill of the worker is fundamental and therefore the given information, like methods of application, choice of color, percentage of dilution and equipment to be used are, for this decorative effect, to be considered purely indicative.

Do not apply when ambient or surface temperature is lower than +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. After application, the external surfaces must be protected from rain until completely dry (usually 48 hours). Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next. The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed.

In each box of neutral non-colored basis, the maximum percentage of dye paste of the arteMURI tintometric system is about 2% by weight. It is recommended to mix well throughout the dye and, in the case of mixing with an orbital mixer, use a slow speed for at least 2 minutes.

Rinse all gear and equipment with water immediately after use.

Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste.

For more details, see safety sheet.

FLEXCO 3

Colored elastomeric base



Product description and fields of use

FLEXCO 3 is an pigmented insulator based on high elasticity acrylic copolymers in aqueous dispersion, inorganic pigments and inerts with selected particle size, specific for the preparation of external and internal wall surfaces. Presents high alkali resistance, high binding and adhesion power, high filler features and an exceptional ability to standardize the irregular absorption of the treated wall surface. The product coverage allows for the obtaining of a better filling during the painting phase but that does not in any way allow for the saving of one layer of the subsequent finish, because in the treatment of a surface with elastomeric products, it is of paramount importance that the gauges used are those provided in order to obtain the proper functionality of the product.

Thanks to the used binder, the product keeps a high elasticity in time, even during periods of low temperatures. All these features make FLEXCO 3 suitable for application onto mortar plasters based on hydraulic lime-binder, concrete conglomerates and surfaces of various kinds. It is particularly suited to facilitate the coating of difficult surfaces like old painting with strong hues, or where there are strong traces of stucco work and small imperfections, on rough or finished plasters, irregular and difficult to fill and then to be completed with finishings, intonachino and thick coatings in clear tones or in painting with vivid nuances of limited covering.

FLEXCO 3 is ideal as a base for outer protection and decoration cycles of new buildings and reconstruction work of urban buildings.

FLEXCO 3 may be tinted with the arteMURI tintometric system.

Advantages

leveling and insulation base
good coverage
base layer for colored intonachino
high elasticity

Specifications

The wall surfaces such as mortar plasters based on hydraulic lime-binder, premixed and traditional, finished or not, concrete conglomerates and various kinds of surfaces, may be treated with the high-coverage, water-dilutable, pigmented base FLEXCO 3 from Fornaci Calce Grigolin, product based on elastomeric acrylic copolymers in aqueous dispersion. The minimum consumption of this product is equal to 0.12 l/m².

Consumption and packaging

FLEXCO 3 is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.12 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. If there are small cracks, evaluate the size and, if appropriate, open,

plaster and fill them with the appropriate elastic sealant which may be painted afterwards or with a mortar with added PRG FLEX. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled. Should there be brittle surfaces, apply a layer of PRG SL T as base.

Product Preparation

Dilute the product with approx. 5-10% by volume of water for roller applications and with 15-20% for brush applications. In both cases, the product should be thoroughly mixed.

Application

Apply a first coat by roller or brush, taking care to distribute the product uniformly over the surface. If necessary, apply a second layer to render the surface more even. After about 8 hours, proceed with the application of the finish.

Important Notes

Do not apply elastomeric products if the base surface is still humid or not completely dry. Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Immediately after use rinse tools and equipment with water.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | acrylic elastomers |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.350 ± 30 g/l |
| Viscosity | 10.000 ± 2.000 cP |
| Application | brush, roller |
| Consumption | approx. 160 g/m ² (0,12 l/m ²) |
| Theoretical yield | 8,3 m ² /l |
| COV Content (DIR. 2004/42/CE) | Fixing primer – A category EU limit values for sub-category h type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 8 hrs. |

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



arteMURI 3 elastomer

FONDO 03

Elastomeric filling base with average particle size



Product description and fields of use

FONDO 03 is a structural filling micro-decoration, with high-filling power, based on high-flexibility acrylic copolymers in aqueous dispersion, color pigments resistant to light and UV and siliceous fillers of size selected. It has excellent resistance to alkali and weathering, it has a remarkable resistance to friction and washing, a low dirt retention, ease of application and an excellent filling power. Thanks to the binder used, the product keeps its high elasticity over time and even at low temperatures.

All these features make FONDO 03 suitable for exterior and interior applications on mortar plaster based on hydraulic lime-binder, premixed and traditional and on concrete conglomerates. In particular, it is used as background layer on hard to fill surfaces or where the surface is uneven and not uniform, before use of other exterior finishes of the elastomer class.

In addition, FONDO 03 is a special base treatment for the outer protection and decoration of new buildings and renovation works, in construction of urban structures with the presence of small mural crannies.

FONDO 03 may be tinted with the arteMURI tintometric system.

Advantages

structural base and filler
high elasticity
excellent coverage
high resistance to weathering and UV rays

Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, concrete conglomerates of various kinds, may be treated with the filling, high-coverage, elastomeric base FONDO 03 from Fornaci Calce Grigolin, product based on elastomeric acrylic copolymers in aqueous dispersion, light-resistant pigments and fillers with selected particle size. The minimum consumption of this product is equal to 0.18 l/m².

Consumption and packaging

FONDO 03 is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.18 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

New wall surfaces must be cured, dry, free from dust and loose parts. To level and plaster imperfections such as holes, cracks or crannies, one must intervene first with appropriate restoration product or mortar. On already painted surfaces, check the conditions of the film and completely remove degraded paint, thick finishings and not fully adhesive decorations. If there are small cracks, evaluate the size and, if appropriate, open, plaster and fill them with the appropriate

elastic sealant which may be painted afterwards or with a mortar with added PRG FLEX. Clean up any mold or algae present with the SEI KO detergent and then sanitize the surface with the SEI OK sanitizer. Possible imperfections still present must be stuccoed and then leveled. Should there be brittle surfaces, apply a layer of PRG SL T as base.

Product Preparation

Dilute the product with approx. 5% by volume of water for roller applications and with 10-15% for brush applications.

Application

Apply a first coat by roller or brush, taking care to distribute the product uniformly over the surface. If necessary, apply a second layer to render the surface more even, crossing the direction of application. After at least 16 hours, proceed with the application of the finish.

Important Notes

Do not apply elastomeric products if the base surface is still humid or not completely dry. Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Immediately after use rinse tools and equipment with water. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | acrylic elastomers |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.420 ± 30 g/l |
| Viscosity | 15.000 ± 2.000 cP |
| Application | brush, roller |
| Consumption | approx. 250 g/m ² (0,18 l/m ²) |
| Theoretical yield | 5,5 m ² /l |
| COV Content (DIR. 2004/42/CE) | Fixing primer – A category EU limit values for sub-category h type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 16 hrs. |



ELAS-TER FIBRO

Fiber-reinforced elastomeric structural base for exterior surfaces



Product description and fields of use

ELAS-TER FIBRO is a structural base with high elasticity, even at low temperatures, based on acrylic and elastomeric copolymers in aqueous dispersion and synthetic fibers which, once dried, create a film with a structure resistant to stress and which prevents the formation of cracks and leaks. It also presents anticarbonation properties, low water absorption and good permeability to water vapor.

Thanks to the binder used, the product keeps its high elasticity over time and even at low temperatures. ELAS-TER FIBRO is used as an intermediate in preventing the emergence of crannies and small cracks in wall structures and for repairing them, in case they are already present. In fact, the product creates a protective film that has a certain consistency and is able to follow the small dimensional movements of the small-sized cracks.

ELAS-TER FIBRO may be tinted with the arteMURI tintometric system.

Advantages

- fiber-reinforced base
- high elasticity
- excellent fullness
- excellent coverage

Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, concrete conglomerates of various kinds, may be treated with the of the fiber-reinforced, water-based, elastomeric intermediate base ELAS-TER FIBRO from Fornaci Calce Grigolin, product based on elastic polymers in water dispersion and synthetic fibers. The minimum consumption of this product is equal to 0.32 l/m².

Consumption and packaging

ELAS-TER FIBRO is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.32 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, plastered or in concrete, prior to the application, it is recommended to ensure that the surface has a maturation of at least 28 days, that it is dry and free of dust and little-adherent parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar.

In the presence of structural cracks up to 1 mm., these must be opened, filled with the appropriate flexible sealant which can be painted later or with a suitable mortar additivated with PRG FLEX.

In case of already painted surfaces, check the condition of the film and completely remove the thick and/or degraded quartz paint or those which are not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparator. Possible imperfections need to be cleaned, plastered and leveled.

Check that the surface is perfectly dry and apply a coat of insulating consolidation

PRG SL T in order to standardize the surface. In all cases where the cracks are larger, after the intervention with the sealant, it is recommended to use a specific alkali-resistant mesh of thin polyester to cover the crack and then to embed it in a layer of ELAS-TER FIBRO. After about 24 hours, protect the product with finishes of the elastomeric class.

Product Preparation

The product is ready-to-use, but it may be diluted with max. 3% by volume of water.

Product Application

Apply a layer of ELAS-TER FIBRO distributing the product on the surface with a brush or float; then structure it at once with a short-hair wool roll or a sponge roll in order to regularize the look of the film. After at least 24 hours, proceed with the application of the elastomeric paint ELAS-TER FILL.

Important Notes

Do not apply elastomeric products if the base surface is still humid or not completely dry. The product must always be covered with a paint of adequate elasticity, in order to avoid the formation of cracks and crevases. Do not apply when ambient or surface temperature is below +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Immediately after use rinse tools and equipment with water.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|--|--|
| Binder type | acrylic elastomers |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.350 ± 30 g/l |
| Viscosity | 21.000 ± 2.000 cP |
| Application | spread with brush or float, structure with short-hair wool or sponge roll |
| Consumption | approx. 430 g/m ² (0,32 l/m ²) |
| Theoretical yield | 3,1 m ² /l |
| COV Content (DIR. 2004/42/CE) | Fixing primer - A category EU limit values for sub-category h, type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 24 hrs. |
| Permeability to liquid water (UNI EN 1062-3) | low, w < 0,1 kg/m ² h ^{0,5} |



ELAS-TER FILL

Anti-algae filling elastomeric finish



Product description and fields of use

ELAS-TER FILL is a fine protective micro-decoration based on special elastic polymers in water dispersion. Thanks to the binder used, the product keeps its high elasticity over time and even at low temperatures.

Compared to traditional elastomeric products, ELAS-TER FILL has reduced dirt retention, thanks to a self-reticulant substance which reacts, under the action of sunlight, by increasing the surface hardness without reducing the elasticity of the finishing film. The product has excellent weathering resistance, excellent water repellence and good permeability to water vapor and impermeable to carbon dioxide. Thanks to the presence of selected mineral fillers, the product has high filling power which allows to level small irregularities on the wall surface. In addition, it has a special blend of active ingredients with a broad spectrum of action that prevents the

surface from the growth of molds, fungi and algae.

ELAS-TER FILL is therefore suitable for decoration and protection of the outer surface of walls and for the repair of structures that have micro-cracks.

ELAS-TER FILL may be tinted with the arteMURI tintometric system.

Advantages

ease of application
high elasticity
excellent coverage
anti-algae protection
high resistance to weathering and UV rays

Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, concrete conglomerates of various kinds, may be finished with the anti-algae filling elastomeric finish ELAS-TER FILL from Fornaci di Calce Grigolin, product based on synthetic polymers in aqueous emulsion, light-resistant pigments and silicium fillers of selected particle size. The

minimum consumption of this product is equal to 0.26 l/m² two hands.

Consumption and packaging

ELAS-TER FILL is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.26 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, plastered or in concrete, prior to the application, it is recommended to ensure that the surface has a maturation of at least 28 days, that it is dry and free of dust and little-adherent parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. If there are structural cracks, evaluate them, and, if applicable, these must be opened, filled with the appropriate

Technical data

| | |
|---|--|
| Binder type | acrylic elastomers |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.400 ± 30 g/l |
| Viscosity | 15.000 ± 2.000 cP |
| Application | brush, roller |
| Consumption | approx. 180 g/m ² per coat (0,13 l/m ²) |
| Theoretical yield | 3,8 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Painting for exterior walls of mineral surface- A category EU limit values for sub-category c, type BA 40 g/l (2010) This product contains a maximum of 40 g/l COV |
| Decoration on the product | 16 hrs. |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 11998) | >10.000 cycles, highly resistant to friction |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | $W < 0,5 \text{ kg/m}^2 \cdot \text{h}^{0,5}$ e $S_d < 2 \text{ m}$ |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class II (average), S_d between 0,14 m and 1,4 m |
| Permeability to liquid water (UNI EN 1062-3) | Clasa I (low), $w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$ |



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ELAS-TER FILL

flexible sealant which can be painted later or with a suitable mortar additivated with PRG FLEX.

In case of already painted surfaces, check the condition of the film and completely remove the thick and/or degraded quartz paint or those which are not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparator. Possible imperfections need to be cleaned, plastered and leveled.

In case of crumbly surfaces, it is preferable to apply a coat of PRG SL T.

Perform the preparation of the surface with a preparation base of the of elastomeric class like FLEXCO 3, FONDO 03 or ELAS-TER FIBRO and then proceed with the decoration.

Product Preparation

To apply ELAS-TER FILL by roller onto wall structures in the presence of micro-cracks, use the product diluted on average with 5% by volume of water. If applied by brush, dilute the product up to 15% for the first coat and up to 10%, for the second. In both cases, the product should be thoroughly mixed.

Application

Apply the product on the surface with a wool roller or a brush in a continuous manner, wet on wet. After at least 16 hours, apply a second layer of product.

Important Notes

Do not apply when ambient or surface temperature is lower than +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. After application, the external surfaces must be protected from rain until completely dry (usually 48 hours). Do not apply elastomeric products if the base surface is still humid or not completely dry. The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next. Rinse all gear and equipment with water immediately after use. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

arteMURI
3 elastomer

ELAS-TER
1-1,2-1,5-1,8 mm

Anti-algae elastomeric inton-
acchino



Product description and fields of use

ELAS-TER is a fiber-reinforced protective coating based on special elastic polymers in water dispersion, selected pigments and mineral fillers of selected particle size. The product has a high elasticity at low temperatures and is therefore suitable for the recovery of wall structures that have micro-cracks. Compared to traditional elastomeric products, ELAS-TER has good resistance to weathering and low dirt retention due to the auto-reticulant substance that, under the action of sunlight, reacts by increasing the surface hardness without reducing the flexibility of the coating. It also has low water absorption, anti-carbonatation properties and good permeability to water vapor. The special curved grain gives the product a highly-filling properties, a pleasant intonachino effect and help standardize surface imperfections.

In addition, it has a special blend of active ingredients with broad spectrum of action that prevents the surface from the growth

of molds, fungi and algae.

The product is particularly suited to new surfaces with mortar plasters based on hydraulic lime-binder, premixed and traditional, finished or not, skim plasters and concrete conglomerates of various kinds. ELAS-TER may be tinted with the arteMURI tintometric system.

Advantages

intonachino effect
various sizes
ease of application
excellent water repellence
high elasticity

Specifications

The wall surfaces, such as mortar plasters, based on hydraulic lime-binder, premixed and traditional and various kinds of concrete conglomerates, may be finished with the elastomericdecoration ELAS-TER from Fornaci Calce Grigolin, product based on elastomeric copolymers in watery dispersion, pigments and selected charges. The finished product has a minimum consumption equal to 1.6 kg./m² up to 3.5 kg./m², depending on the size of employed particles.

Technical data

| Binder type | Binder type |
|---|--|
| Texture | dense/in various particle size |
| Specific weight (ISO 2811 at 23°C) | 1.710 ± 100 g/l |
| Viscosity | 160.000 ± 20.000 cP |
| Viscosity | float and plastic float |
| Consumption | See Table 1 |
| Theoretical yield | See Table 1 |
| COV Content (DIR. 2004/42/CE) | Painting for exterior walls of mineral surface- A category EU limit values for sub-category c, type BA 40 g/l (2010) This product contains a maximum of 40 g/l COV |
| Decoration on the product | 16 hrs. |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | $W < 0,5 \text{ kg/m}^2 \cdot \text{h}^{0,5}$ e $S_d < 2 \text{ m}$ |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class II (average), S_d between 0,14 m and 1,4 m |
| Class II (average), S_d between 0,14 m and 1,4 m | Clasa I (low), $w < 0,1 \text{ kg/m}^2 \cdot \text{h}^{0,5}$ |

TABLE 1

| TABLE | Layers | Consumption | Yield |
|--------|----------|---------------------------|------------------------------|
| 1 mm | one coat | 1,6-2,0 kg/m ² | 0,50-0,60 m ² /kg |
| 1,2 mm | one coat | 1,8-2,2 kg/m ² | 0,45-0,55 m ² /kg |
| 1,5 mm | one coat | 2,3-2,8 kg/m ² | 0,35-0,45 m ² /kg |
| 1,8 mm | one coat | 3,0-3,5 kg/m ² | 0,28-0,33 m ² /kg |



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arteMURI
3 elastomer

ELAS-TER
1-1,2-1,5-1,8 mm

Consumption and packaging

ELAS-TER is supplied in 25 kg. buckets. The finished product has a minimum consumption equal to 1.6 kg./m² up to 3.5 kg./m², depending on the size of employed particles.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, plastered or in concrete, prior to the application, it is recommended to ensure that the surface has a maturation of at least 28 days, that it is dry and free of dust and little-adherent parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. If there are structural cracks, evaluate them, and, if applicable, these must be opened, filled with the appropriate flexible sealant which can be painted later or with a suitable mortar additivated with PRG FLEX.

In case of already painted surfaces, check the condition of the film and completely remove the thick and/or degraded quartz paint or those which are not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparator. Possible imperfections need to be cleaned,

plastered and leveled.

In case of crumbly surfaces, it is preferable to apply a coat of PRG SL T. Perform the preparation of the surface with a preparation base of the elastomeric class like FLEXCO 3, FONDO 03 or ELAS-TER FIBRO and then proceed with the decoration.

Product Preparation

The product is ready-to-use, but it may be diluted with max. 3% by volume of water. Mix the product well until it reaches a homogenous consistency.

Application

Spread the product evenly on the surface with a metallic spatula. Before the product starts to form a surface film, finish with circular movements using the spatula or plastic or sponge float, to obtain the desired results.

Important Notes

Do not apply elastomeric products if the base surface is still humid or not completely dry. Do not apply when ambient or surface temperature is lower than +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. After application, the external surfaces must be protected from rain until completely dry (usually 48 hours). The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next.

Rinse all gear and equipment with water immediately after use. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

arteMURI 4 silicate

F4 SIL

Potassium silicate transparent insulator



Product description and fields of use

F4 SIL is a water-based, mineral impregnating base, for exterior and interior wall surfaces, based on modified potassium silicate with special compatible binders and in conformity to DIN 18363 section 2.4.6. The product is used as insulation for the application of mineral finishes. In fact, thanks to the high-penetration power and grip strength, it facilitates and promotes adherence and regulates absorption, without compromising any mineral feature of the surface. F4 SIL contains water soluble potassium silicate which, after the application onto the surface, reacts with carbon dioxide present in the air and with the calcium salts present in the plaster, thus giving birth to calcium silicate, a mineral salt that has high consolidation and grip characteristics and which gives the layer of applied product the aspect and properties of typical building materials. Thanks to significant insulating and consolidating characteristics, F4 SIL is an excellent mineral fixative, suitable for any type of wall surface plastered with mortar based on hydraulic lime-binder, premixed and traditional, finished or not, as a base for brush-applied finishings or filling decorations and thick intonachino coatings of the silicate class. Moreover, it can also be used for diluting the first coat of paint of the same class.

Advantages

high penetration power
consolidating property
high adhesion
regulation of absorption

Specifications

The wall surfaces of historical and artistic interest, such as lime-based plaster, premixed and traditional, can be finished with the water-based, mineral impregnating base, for exterior and interior wall surfaces, F4 SIL from Fornaci di Calce Grigolin, product based on potassium silicate. The minimum consumption of this product is equal to 0.07 l/m².

Consumption and packaging

F4 SIL is supplied in 5 and 20 l. buckets. The minimum consumption of this product is equal to 0.07 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. Clean thoroughly, plaster and level the imperfections on

the surface before applying product, as the potassium silicate should react with the components contained in the plaster in order for the product to properly perform its functions. If the conditions of the painting are good, intervene with the adhesive silicate base GRIPSIL 4 especially designed to create an adhesive bridge for the successive finish layer.

Product Preparation

For application by brush, dilute the product from 100 to 200% by volume of water. Mix well.

Application

Apply a coat of properly diluted product by brush, followed by the application of the mineral finish.

Important Notes

Do not apply when ambient or surface temperature is below +8°C or above +35°C and relative humidity in excess of 75%. Avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water. Adequately protect the surfaces adjacent to the area where F4SIL is applied, like glass, delicate ceramic pavements, wood fixtures, etc. in order to avoid damage. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | solution of modified potassium silicate with special compatible binders (in conformity to DIN 18363 section 2.4.6.) |
| Texture | liquid/milky |
| Specific weight (ISO 2811 at 23°C) | 1.000 ± 20 g/l |
| Application | preferably brush, but also roller, spray and airless |
| Consumption | 70-140 g/m ² (0,07-0,14 l/m ²) |
| Theoretical yield | 7-14 m ² /l |
| COV Content (DIR. 2004/42/CE) | Fixing primer- A category EU limit values for sub-category h, type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 4 hrs. |



COPRISIL 4

Potassium silicate colored base



Product description and fields of use

COPRISIL 4 is a pigmented base in conformity with DIN 18363 section 2.4.6. based on modified potassium silicate, inorganic pigments and mineral inerts of selected size, specifically adapted for the preparation of exterior and interior wall surfaces. It has a high binding and adhesion power, high filler features and an exceptional ability to standardize the irregular absorption of the treated wall surface, without altering permeability to water vapor. Its high coverage capacity allows in many cases for the saving of one layer of the final finish. COPRISIL 4 is suitable for application on any wall surface, such as lime- and cement-based plasters, premixed and traditional, finished or not, concrete conglomerates and minerals surfaces of various kinds of historical or artistic interest, as a preparation base for finishings of the silicate class. In addition, the product is particularly suited to facilitate the coating of difficult surfaces like old, dark, non-homogeneous paintings and rough and finished plasters where there are traces of stucco work and small imperfections. In the latter case, it is used as white or colored imprimitura background, to be subsequently completed by finishes, intonachino and thick decorations in a clear tone or in the color of the painting with a bright tone with limited coverage of the silicate class. COPRISIL 4 may be tinted with the arteMURI tintometric system.

Advantages

leveling and insulation base
good coverage
preparation base for colored intonachino

Specifications

The wall surfaces, such as mineral plasters based on hydraulic lime-binder, premixed and traditional, finished or not, concrete conglomerates and mineral surfaces of various kinds, may be finished with the interior and exterior, high-coverage, pigmented mineral impregnating base, COPRISIL 4 from Fornaci di Calce Grigolin, product based on potassium silicate. The minimum consumption of this product is equal to 0.14 l/m².

Consumption and packaging

COPRISIL 4 is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.14 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. Clean thoroughly, plaster and level the imperfections on the surface before ap-

plying product, as the potassium silicate should react with the components contained in the plaster in order for the product to properly perform its functions.

Product Preparation

COPRISIL 4 should be diluted 5% by volume of water in the case of applications with a roller, and with approx. 10% by volume with water, for applications with a brush. In both cases, the product should be thoroughly mixed.

Application

Apply a coat of properly diluted COPRISIL 4, taking care to evenly distribute the product onto the surface. If necessary, apply a second coat in order to render the surface more even. Then, proceed with the application of the mineral finish based on potassium silicate.

Important Notes

Do not apply when ambient or surface temperature is below +8°C or above +35°C and relative humidity in excess of 75%. Avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water. Adequately protect the surfaces adjacent to the area where COPRISIL 4 is applied, like glass, delicate ceramic pavements, wood fixtures, etc. in order to avoid damage. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | solution of modified potassium silicate with special compatible binders (in conformity to DIN 18363 section 2.4.6.) |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.700 ± 30 g/l |
| Viscosity | 28.000 ± 3.000 cP |
| Application | brush, roller |
| Consumption | 240 g/m ² (0,14 l/m ²) |
| Theoretical yield | 7,1 m ² /l |
| COV Content (DIR. 2004/42/CE) | Fixing primer- A category EU limit values for sub-category h, type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 8 hrs. |



arteMURI
4 silicate

GRIPSIL 4

Silicate mineral binding base



Product description and fields of use

GRIPSIL 4 is a product based on potassium silicate, natural colored pigments resistant to light and UV and mineral inerts with selected size, specific for the application of mineral finishes on exterior surfaces and areas already decorated with old organic paint or continuous plastic coatings. The product develops an effective bridge between the surface and the mineral finish without compromising the permeability to water vapor. The ease of application and its optimal filling power make it possible to use the product on any surface in rehabilitation and restoration works of buildings of historical and artistic interest. GRIPSIL 4 is suitable for exterior application on walls with surfaces already treated with old organic paint. It can also be used as primer to regularize, mask and cover hard surfaces or uneven finishes prior to the use of exterior mineral finishes of the silicate class.

GRIPSIL 4 may be tinted with the arteMURI tintometric system.

Advantages

binding base for synthetic finishes
excellent grip
good filling power
good breathability



Specifications

The exterior wall surfaces and those already decorated with mineral finishes, may be finished with the highly-adhesive, filling base, GRIPSIL 4 from Fornaci di Calce Grigolin, product based on potassium silicate, light-resistant mineral pigments and selected inerts. The minimum consumption of this product is equal to 0.14 l/m².

Consumption and packaging

GRIPSIL 4 is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.14 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparador. Possible imperfections need to be cleaned, plastered and leveled. Next, prepare the surface through mineral impregnation by using the transparent insulating potassium silicate-based F4 SIL, suitably diluted to 100-200%, before the application of the binding base GRIPSIL 4.

Technical data

| | |
|------------------------------------|---|
| Binder type | solution of modified potassium silicate with special compatible binders (in conformity to DIN 18363 section 2.4.6.) |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.700 ± 30 g/l |
| Viscosity | 37.000 ± 3.000 cP |
| Application | brush, roller |
| Consumption | 230 g/m ² (0,14 l/m ²) |
| Theoretical yield | 7,1 m ² /l |
| COV Content (DIR. 2004/42/CE) | Fixing primer- A category EU limit values for sub-category h, type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 8 hrs. |

Product Preparation

GRIPSIL 4 should be diluted 5-10% by volume of water in the case of applications with a roller, and with approx. 15-20% by volume with water, for applications with a brush. In both cases, the product should be thoroughly mixed.

Application

Apply a first coat, taking care to evenly distribute the product onto the surface. After at least 8 hours, proceed with the application of the mineral finish of the silicate class. In the case of difficult surfaces, it is possible to apply a second coat.

Important Notes

Do not apply when ambient or surface temperature is below +8°C or above +35°C and relative humidity in excess of 75%. Avoid application under the action of direct sunlight or strong wind. After the application of the base or the complete finish cycle, the external surfaces must be protected from rain until completely dry (usually 48 hours). The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Immediately after use rinse tools and equipment with water. Adequately protect the surfaces adjacent to the area where GRIPSIL 4 is applied, like glass, delicate ceramic pavements, wood fixtures, etc. in order to avoid damage.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

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arteMURI
4 silicate

SIL4 IN

Potassium-silicate mineral paint
for interiors



Product description and fields of use

SIL4 IN is a breathable and covering finish, in accordance with DIN 18363, Section 2.4.6, based on potassium silicate, it is completely solvent-free and has a low VOC content, suitable for the painting of interior wall surfaces. Thanks to the high content of pigments and selected natural fillers, white and opaque, the product has an exceptional white point and a high covering and filling power. The high water vapor permeability, combined with the simplicity and ease of application, makes the product particularly suitable for finishing interiors and premises with low ventilation or with high humidity and condensation, such as kitchens, cafeterias, schools, offices, food industries and environments with general high human frequentation. IN SIL4 has an appearance similar to any water-based or washable indoor paint but at the same time, thanks to its mineral characteristic and high alkalinity of the silicate content, it gives the painted surface sanitizing action that minimizes the ingrowth of bacteria and molds in time. Thanks to all this, it gives to all those who are present in the decorated environment, a living comfort room in accordance to the requirements of Bio-engineering.

The product is suitable for application on mineral mortar plasters, based on hydraulic lime-binder, traditional and pre-mixed and finished.

SIL4 IN may be tinted with the arteMURI tintometric system.

Advantages

mineral opaque appearance
excellent coverage and whiteness
excellent breathability
ease of application



Specifications

The interior wall surfaces, like mineral plasters based on hydraulic lime-binder, premixed and traditional, may be finished with the velvety, opaque, high fullness, breathable mineral paint SIL4 IN from Fornaci di Calce Grigolin, product based on potassium silicate, with low VOC content. The minimum consumption of this product is equal to 0.24 l/m² in two coats.

Consumption and packaging

SIL4 IN is supplied in 5 and 15 l. buckets. The minimum consumption of this product is equal to 0.24 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparador. Possible imperfections need to be cleaned, plastered and leveled. Next, prepare the surface, according to the conditions of the surface, with the specific base products in the silicate class and, unless the old paint is well bonded to the inside walls, it may be

used directly as base adhesive and prepare the product GRIPSIL 4.

Product preparation

Dilute the product with about 30-35% by volume of water for brush application; for applying the second coat, dilute the product with about 20-30% by volume of water. Dilute with 20-25% by volume of water for applications with a roller. Sometimes, on slightly brittle surfaces, in the dilution of the first coat of product, use F4 SIL in order to give more adhesive properties and binding power to the film. Mix the product thoroughly.

Application

The product is applied by brush and roller. Apply a first coat taking care to evenly distribute the product over the surface. After about 6 hours, proceed with the application of the second layer.

Important Notes

Do not apply when ambient or surface temperature is below +8°C or above +35°C and relative humidity in excess of 75%. Avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water. Adequately protect the surfaces adjacent to the area where F4 SIL is applied, like glass, delicate ceramic pavements, wood fixtures, etc. in order to avoid damage. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|---|---|
| Binder type | solution of modified potassium silicate with special compatible binders (in conformity to DIN 18363 section 2.4.6.) |
| Texture | paste/smooth |
| Specific weight (ISO 2811 at 23°C) | 1.450 ± 30 g/l |
| Viscosity | 20.000 ± 4.000 cP |
| Application | brush, roller, spray or airless |
| Consumption | approx. 175 g/m ² per coat (0,12 l/m ²) |
| Theoretical yield | 4,2 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Opaque paint for walls and ceilings- A category EU limit values for sub-category a, type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 8 hrs. |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high), Sd < 0,14 m |
| Gloss degree(UNI EN ISO 2813) | 5-10 gloss, opaque |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 11998) | >1.000 cycles, resistant |

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arteMURI
4 silicate

SIL4 OUT

Potassium-silicate smooth mineral
finish for exteriors



Product description and fields of use

SIL4 OUT is a mineral water-based paint, formulated according to DIN 18363, Section 2.4.6., based on potassium silicate, stabilised and modified with compatible binder, natural inorganic pigments resistant to light and UV rays and selected fillers. It also contains potassium silicate soluble in water which, following the application on the surface, reacts with the carbon dioxide present in the air and with the calcium salts present in the layer of plaster, giving birth to calcium silicate, mineral salt which possesses high consolidation and grip characteristics and gives the layer of applied product the appearance and properties of typical building materials.

SIL4 OUT is easily applicable and, because it has a mineral nature, it has the appearance and color of colored antique plasters or old lime paint. Once applied, it does not create a continuous film but nevertheless, it has a high breathability to water vapor and excellent adhesion to the substrate, avoiding in time phenomena like detachment or stripping. Furthermore, it has a low retention of dirt and a sanitizing action that minimizes the ingrowth and proliferation in a time of bacteria, molds and algae. The product is weather

resistant, it has good resistance to friction and washing and, if waterproofed with special siloxane additives, it gives the painted surface a low water absorption. SIL4 OUT is suitable for application on exterior mineral mortar plasters based on hydraulic lime-binder, traditional and pre-mixed, finished, in particular for the protection and decoration of new buildings and in urban construction and in rehabilitation and restoration work of historic centers.

SIL4 OUT may be tinted with the arteMURI tintometric system.

Advantages

opaque mineral aspect
good resistance to washing

excellent breathability
good water repellency
ease of application

Specifications

The wall surfaces, like mineral plasters based on hydraulic lime-binder, pre-mixed and traditional, may be finished with the protective, breathable mineral paint SIL4 OUT from Fornaci di Calce Grigolin, product based on potassium silicate in watery solution. The minimum consumption of this product is equal to 0.26 l/m² in two coats.

Consumption and packaging

SIL4 OUT is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.26 l/m².

Technical data

| | |
|---|--|
| Binder type | solution of modified potassium silicate with special compatible binders (in conformity to DIN 18363 section 2.4.6.) |
| Texture | paste/smooth |
| Specific weight (ISO 2811 at 23°C) | 1.480 ± 30 g/l |
| Viscosity | 18.000 ± 2.000 cP |
| Application | brush, roller, spray or airless |
| Consumption | approx. 190 g/m ² per coat (0,13 l/m ²) |
| Theoretical yield | 3,8 m ² /l in two coats |
| COV Content (Dir. 2004/42/CE) | Painting for mineral exterior walls - A category EU limit values for sub-category a, type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 8 hrs. |
| Propustnost pro vodní páry (ČSN EN ISO 7783-2) | Třída I (vysoká), Sd < 0,14 m |
| Permeability to liquid water (UNI EN 1062-3) | Class II (average), w between 0,1 and 0,5 kg/m ² *h ^{0,5} |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | W < 0,5 kg/m ² *h ^{0,5} e Sd < 2 m |
| Gloss degree(UNI EN ISO 2813) | 5-10 gloss, opaque |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 11998) | >2 000 cyklů, odolná |

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arteMURI
4 silicate

SIL4 OUT

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparatore. Possible imperfections need to be cleaned, plastered and leveled. Next, prepare the base, according to the conditions of the surface, with the specific base products in the silicate class, like F4 SIL, COPRISIL 4, GRIPSIL 4. Only if the old paint is well bonded to the inside walls, it may be used directly as base adhesive and prepare the product GRIPSIL 4.

Product preparation

Dilute the product with about 30-35% by volume of water for brush application and with 20-25% by volume of water for applications with a roller. Sometimes, on slightly crumbly surfaces, use F4 SIL in the dilution of first coat of product in order to give more adhesive properties and binding power to the film. For applying the second coat, dilute the product with about 20-30% by volume of water. Mix the product thoroughly.

Application

The product is applied by brush and roller. Apply a first coat taking care to evenly distribute the product over the surface. After about 6 hours, proceed with the application of the second layer.

Important Notes

Do not apply when ambient or surface temperature is below +8°C or above +35°C and relative humidity in excess of 75%. Avoid application under the action of direct sunlight or strong wind. Immediately after use rinse tools and equipment with water. Adequately protect the surfaces adjacent to the area where F4 SIL is applied, like glass, delicate ceramic pavements, wood fixtures, etc. in order to avoid damage. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

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arteMURI
4 silicate

SIL4 INTO
0.7-1-1.2-1.5-1.8-2.5 mm
Silicate mineral intonachino



Valid for grain 1,5 - 2 - 3 mm

Product description and fields of use

SIL4 INTO is a finish paste with intonachino effect, in various types of grain size, according to DIN 18363, Section 2.4.6., based on waterproofed potassium silicate, inorganic pigments resistant to light and UV radiation, and controlled and selected mineral fillers. It has excellent resistance to weathering, a low retention of dirt and an excellent adhesion to the substrate, without generating phenomena like peeling and detachment. The product contains potassium silicate soluble in water which, following the application on the surface, reacts with the carbon dioxide from the air and with the calcium salts present in the layer of plaster, giving birth to calcium silicate, mineral salt that possesses

high consolidation and adhesive characteristics and gives the layer of applied product the appearance and properties of typical building materials. Moreover, the potassium silicate gives the product a high permeability to water vapor, while the siloxane additives allow the finish to have a low water absorption. The product is easy to apply due to its excellent workability and finishing.

All these features make SIL4 INTO suitable for application inside and outside, on background mineral plasters based on hydraulic lime-binder, premixed and

traditional, thermal insulation systems like thermo-plasters and coatings, concrete conglomerates and cementitious skim plasters. In particular, the product appears to be a special, in-depth coating for the protection and decoration of historic facades, new buildings and restoration of plaster where a high water vapor diffusion and a low water absorption is needed.

SIL4 INTO may be tinted with the arteMURI tintometric system.

ETA certified product for thermal insulation systems.

Technical data

| | |
|---|--|
| Binder type | solution of modified potassium silicate with special compatible binders (in conformity to DIN 18363 section 2.4.6.) |
| Texture | paste/thick/in various grain sizes |
| Specific weight (ISO 2811 at 23°C) | 1.800 ± 50 g/l |
| Viscosity | 180.000 ± 30.000 cP |
| Application | spatule or plastic, metallic or sponge float |
| Consumption | See Table 1 |
| Theoretical yield | See Table 1 |
| COV Content (DIR. 2004/42/CE) | Painting for mineral exterior walls - A category EU limit values for sub-category c, type BA 40 g/l (2010) This product contains a maximum of 40 g/l COV |
| Decoration on the product | 16 hrs. |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high) , Sd <0,14 m |
| Permeability to liquid water (UNI EN 1062-3) | Class II (average), w between 0,1 and 0,5 kg/m ² *h ^{0,5} |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | W < 0,5 kg/m ² *h ^{0,5} e Sd <2 m |

ETA certified product for thermal insulation systems

TABLE 1

| Grain size | Coats | Consumption | Yield |
|------------|------------|---------------------------|------------------------------|
| 0,7 mm | two layers | 2,6-3,2 kg/m ² | 0,31-0,39 m ² /kg |
| 1 mm | one layer | 1,6-2,0 kg/m ² | 0,50-0,60 m ² /kg |
| 1,2 mm | one layer | 1,8-2,2 kg/m ² | 0,45-0,55 m ² /kg |
| 1,5 mm | one layer | 2,3-2,8 kg/m ² | 0,35-0,45 m ² /kg |
| 1,8 mm | one layer | 3,0-3,5 kg/m ² | 0,28-0,33 m ² /kg |
| 2,5 mm | one layer | 3,6-4,0 kg/m ² | 0,25-0,28 m ² /kg |



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SIL4 INTO

0,7-1-1,2-1,5-1,8-2,5 mm

Advantages

intonachino effect
various grain sizes
ease of application
excellent breathability
good water repellency

Specifications

The exterior wall surfaces, like mineral plasters based on hydraulic lime-binder, premixed and traditional, skim plasters, thermal insulation systems and cement conglomerates of various kinds, may be finished with the antique-looking, mineral intonachino SIL4 INTO from Fornaci Calce Grigolin, product based on potassium silicate in watery solution, inorganic colored pigments resistant to light and mineral fillers of controlled grain size. The minimum consumption of the finished product may vary from 1.6 kg./m² to 4.0 kg./m², depending on grain size.

Consumption and packaging

SIL4 INTO is supplied in 25 kg. buckets. The minimum consumption of the finished product may vary from 1.6 kg./m² to 4.0 kg./m², depending on grain size.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent.

The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparatur. Possible imperfections need to be cleaned, plastered and leveled.

Next, prepare the base, according to the conditions of the surface, with the specific silicate class base COPRISIL 4 or with the universal filling base PRIMER UNI-KO GM. Only if the old paint is well bonded to the inside walls, it may be used directly as base adhesive and prepare the product GRIPSIL 4.

Product preparation

SIL4 INTO can be used as provided but can be diluted with up to 2% by volume of water, taking care to mix thoroughly in order to obtain a homogeneous consistency.

Application

Apply the properly diluted product with a metallic spatula, taking care to distribute it evenly onto the surface. Next, before the product begins to form a surface film, finish with circular motion using a spatula or plastic or sponge float to obtain the desired result. If you use the fine particle size SIL4 INTO 0.7 mm. in two coats or if it is necessary to apply an additional layer of product, you should always wait for the first coat to be completely dry.

Important Notes

Do not apply when ambient or surface temperature is lower than +8°C or above +35°C and relative humidity in excess of 75%. Avoid application under the action of direct sunlight or strong wind.. After application, the external surfaces must be protected from rain until completely dry (usually 48 hours). Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next. In case of application on large surfaces, always use the "wet on wet" technique to avoid creation of hues where areas meet. The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Rinse all gear and equipment with water immediately after use.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

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arteMURI
4 silicate

QUATTROVELE

Antique mineral silicate canvas for indoor and outdoor



Product description and fields of use

QUATTROVELE is a decorative finish mineral formulated according to DIN 18363 Section 2.4.6., based on potassium silicate, colored pigments resistant to UV light and natural mineral fillers. It allows the reproduction of ancient lime-based plaster effects and al fresco canvas paintings of the past thanks to its play of shades, opacity and transparency. Furthermore, its high breathability to water vapor and the excellent water repellency, allows the product to protect and decorate any type of internal and external wall surface in the civilian and professional works as well as in the restoration of historic centers. All these features make QUATTROVELE a canvas specific for applications onto exterior and interior mortar plasters based on hydraulic lime-binder, premixed and traditional, finished or not. QUATTROVELE may be tinted with the arteMURI tintometric system.

Advantages

antique effect
excellent breathability
good water repellency
ease of application

Specifications

The external and internal wall surfaces, such as plasters based on hydraulic lime-binder, premixed and traditional, finished or not, mineral intonachino based on lime and silicate, may be finished with the antique-effect, decorative mineral paint QUATTROVELE from Fornaci Calce Grigolin, waterproof modified product based on potassium silicate in watery solution,

light-resistant inorganic pigments and natural selected fillers. The minimum consumption of this product is equal to 0.07 l/m².

Consumption and packaging

QUATTROVELE is supplied in 1, 5 and 15 l. buckets. The minimum consumption of this product is equal to 0.07 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Technical data

| | |
|---|--|
| Binder type | solution of modified potassium silicate with special compatible binders (in conformity to DIN 18363 section 2.4.6.) |
| Texture | paste/soft/semi-covering |
| Specific weight (ISO 2811 at 23°C) | 1.200 ± 30 g/l |
| Viscosity | 15.000 ± 4.000 cP |
| Viscosity | brush, swab, sponge float, rag or bath sponge, etc. |
| Consumption | approx. 80 g/m ² per coat (0,07 l/m ²) |
| Theoretical yield | 14 m ² /l |
| COV Content (DIR. 2004/42/CE) | Painting with decorative effect - A category EU limit values for sub-category I, type BA 200 g/l (2010) This product contains a maximum of 200 g/l COV |
| Decoration on the product | 8 hrs. |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high) , Sd <0,14 m |
| Permeability to liquid water (UNI EN 1062-3) | Class II (average), w between 0,1 and 0,5 kg/m ² *h ^{0,5} |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | W < 0,5 kg/m ² *h ^{0,5} e Sd <2 m |
| Gloss degree (UNI EN ISO 2813) | 5-10 gloss, opaque |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 11998) | >5.000 cycles, high resistance |



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Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or cavillature, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparator. Possible imperfections need to be cleaned, plastered and leveled.

Next, prepare the base, according to the conditions of the surface, with the specific base products in the silicate class, like F4 SIL, COPRISIL 4, GRIPSIL 4. Only if the old paint is well bonded to the inside walls, it may be used directly as base adhesive and prepare the product GRIPSIL 4.

Then, before QUATTROVELE, apply SIL4 OUT if the walls are exterior, SIL4 IN if the walls are interior, suitably diluted, white or in a lighter shade compared to the final effect, for an antique effect. If you want to combine this effect with a rustic effect, use as base the in-depth silicate plaster INTO SIL4 in white or in a lighter shade.

Product preparation

Dilute the product with about 40-60% by volume of water and mix thoroughly.

Application

Apply a layer, taking care to evenly distribute the product on the surface with a constant movement and then shade it with the most appropriate equipment, depending on the desired effect.

Important Notes

For a good aesthetic result, the skill of the worker is fundamental and therefore the given information, like methods of application, choice of color, percentage of dilution and equipment to be used are, for this decorative effect, to be considered purely indicative.

Do not apply when ambient or surface temperature is lower than +8°C or above +35°C and relative humidity in excess of 75%. Avoid application under the action of direct sunlight or strong wind. After application, the external surfaces must be protected from rain until completely dry (usually 48 hours). Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next. The adhesion of the product to the surface is not guaranteed if application is done on areas with saline efflorescence or subject to moisture, so a prior restoration of the masonry is needed. Rinse all gear and equipment with water immediately after use.

In each box of neutral non-colored basis, the maximum percentage of dye paste of the arteMURI tintometric system is about 2% by weight. It is recommended to mix well throughout the dye and, in the case of mixing with an orbital mixer, use a slow speed for at least 2 minutes. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

arteMURI
5 lime

CINQUETERRE

Decorative mineral paint based on slaked lime



Product description and fields of use

CINQUETERRE is a mineral painting based on seasoned and modified slaked lime, selected aggregates and natural pigments. The product is easy to apply and creates no dust. Presents a dull appearance of the surface film that mimics the colors effects and shades typical of its mineral nature. Furthermore, it is highly permeable to water vapor, it offers excellent resistance to aggressive molds and bacteria and a good resistance to leaching.

CINQUETERRE is indicated for the decoration of buildings of architectural interest and restoration of historic centers. It is used in particular on interior wall surfaces, but we do not recommend the application onto exterior walls, as current environmental conditions do not guarantee the product the protection it needs.

CINQUETERRE may be tinted with the arteMURI tintometric system.

Advantages

mineral Finish
excellent breathability
sanitizing action and resistance to the formation of molds and bacteria
ease of application

Specifications

The wall surfaces, such as plasters based on hydraulic lime-binder, premixed and traditional, skim plasters and cement conglomerates of various kinds, may be finished with the mineral paint CINQUETERRE from Fornaci Calce Grigolin, based product on slaked lime, fine selected fillers, light-resistant pigments and special additives. The minimum consumption of this product is equal to 0.24 l/m² in two coats.

Technical data

| | |
|---|---|
| Technical data | seasoned slake lime and binders in watery dispersion |
| Texture | paste/fine/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.300 ± 30 g/l |
| Viscosity | 10.000 ± 2.000 cP |
| Application | brush, roller |
| Consumption | 160 g/m ² per coat (0,12 l/m ²) |
| Theoretical yield | 4,2 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Opaque paint for walls and interior ceilings-cat. A EU limit values for sub-category a, type BA 40 g./l (2010) This product contains a maximum of 40 g./l COV |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high) , Sd <0,14 m |
| Decoration on the product | 6 hrs. |
| Final hardening | 28 days |
| Gloss degree(UNI EN ISO 2813) | 5-10 gloss, opaque |

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



continues onto the next page

arteMURI 5 lime

CINQUETERRE

Consumption and packaging

CINQUETERRE is supplied in 5 and 15 l. buckets. The minimum consumption of this product is equal to 0.24 l/m² in two coats.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparator. Possible imperfections need to be cleaned, plastered and leveled. In the case of particularly absorbant surfaces, it is recommended to first soak the surface with water and, if they are slightly crumbly, a prior treatment with PRG 10, diluted 1:10 with water is recommended.

Product preparation

Dilute CINQUETERRE with about 25-30% by volume of water for brush application and with 18-20% by volume of water for applications with a roller. Mix the product thoroughly.

Application

The product may be applied by brush or roller. Apply a first coat taking care to evenly distribute the product over the surface. After about 6 hours, proceed with the application of the second layer.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next. During application, use protection goggles and gloves. Avoid skin and eye contact; in case it occurs, wash abundantly with fresh water. Immediately after use, rinse tools and equipment with water.

Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

arteMURI
5 lime

PENTACALCE

Mineral paint based on slaked lime
for exteriors



Product description and fields of use

PENTACALCE is a mineral painting based on seasoned and waterproof-modified slaked lime, fine selected aggregates and natural pigments for the exterior and interior decoration of buildings. The dull and mineral appearance of the surface film mimics the colors effects and shades of the lime. Furthermore, it is highly permeable to water vapor and it offers excellent resistance to aggressive molds.

PENTACALCE is indicated for the decoration of buildings of architectural interest and restoration of historic centers. The application onto exterior walls does not guarantee an adequate duration and protection of the product, however it may be used onto buildings which are not strongly exposed or which particularly require the use of a mineral finish based on slaked lime.

PENTACALCE may be tinted with the arteMURI tintometric system.

Advantages

outdoor mineral finish
decorative
excellent breathability
sanitizing action and resistance to the formation of molds and bacteria
ease of application

Specifications

The wall surfaces, such as plasters based on hydraulic lime-binder, premixed and traditional, skim plasters and cement conglomerates of various kinds, may be finished with the mineral paint PENTACALCE from Fornaci Calce Grigolin, product based on slaked lime, fine selected fillers, light-resistant pigments and special additives. The minimum consumption of this product is equal to 0.26 l/m² in two coats.

Consumption and packaging

PENTACALCE is supplied in 5 and 15 l. buckets. The minimum consumption of this product is equal to 0.26 l/m² in two coats.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparator. Possible imperfections need to be cleaned, plastered and leveled. In the case of particularly absorbant surfaces, it is recommended

to first soak the surface with water and, if they are slightly crumbly, a prior treatment with PRG 10, diluted 1:10 with water is recommended.

Product preparation

Dilute PENTACALCE with about 25-30% by volume of water for brush application and with 18-20% by volume of water for applications with a roller. Mix the product thoroughly.

Application

The product may be applied by brush or roller. Apply a first coat taking care to evenly distribute the product over the surface. After about 6 hours, proceed with the application of the second layer.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +35°C. Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next. During application, use protection goggles and gloves. Avoid skin and eye contact; in case it occurs, wash abundantly with fresh water. Immediately after use, rinse tools and equipment with water.

Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|---|---|
| Binder type | seasoned slake lime and binders in watery dispersion |
| Texture | paste/fine/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.300 ± 30 g/l |
| Viscosity | 10.000 ± 2.000 cP |
| Application | brush, roller |
| Consumption | 170 g/m ² per coat (0,13 l/m ²) |
| Theoretical yield | 3,8 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Opaque paint for walls and interior ceilings-cat. A EU limit values for sub-category a, type BA 40 g./l (2010) This product contains a maximum of 40 g./l COV |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high) , Sd <0,14 m |
| Decoration on the product | 6 hours |
| Final hardening time | 28 days |
| Gloss degree(UNI EN ISO 2813) | 5-10 gloss, opaque |

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



arteMURI
5 lime

5th CALCE

0,7-1-1,2-1,5-1,8 mm

Mineral intonachino plaster finish
based on slaked lime



Product description and fields of use

5th CALCE is a mineral finish based on seasoned slaked lime and selected mineral inerts of various grain sizes. 5th CALCE is recommended as an intonachino-effect finishing on cementitious plasters, either new or old, lime-based. It has excellent breathability and resistance to the formation of molds and bacteria. The inorganic composition and its filling capacity make the product indicated as an ideal finish for the restoration of historic centers and in interventions on green buildings. 5th CALCE may be tinted with the arteMURI tintometric system.

Advantages

- various grain sizes
- plaster effect
- mineral finishing
- ease of application and processing
- resistant to the formation of molds and bacteria
- excellent breathability

Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, skim plasters and cement conglomerates of various kinds, may be finished with the mineral intonachino 5th CALCE from Fornaci Calce Grigolin, product based on slaked lime, synthetic resins, silicious fillers of various grain sizes and light-resistant pigments. The minimum consumption of the finished product ranges from a minimum of 1.6 kg/m² to 3.5 kg/m², depending on the thickness of employed grain size.

Consumption and packaging

5th CALCE is supplied in 25 kg. buckets. The minimum consumption of the finished product ranges from a minimum of 1.6 kg/m² to 3.5 kg/m², depending on the thickness of employed grain size.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Avoid freezing temperatures. If stored for longer than 3-4 months, the product tends to thicken and therefore, prior to usage, shake vigorously.

Technical data

| | |
|---|--|
| Binder type | seasoned slaked lime and binders in watery dispersion |
| Texture | paste/thick/in various grain sizes |
| Specific weight (ISO 2811 at 23°C) | 1.650 ± 100 g/l |
| Viscosity | 160.000 ± 20.000 cP |
| Application | spatule or plastic, metallic or sponge float |
| Consumption | See Table 1 |
| Theoretical yield | See Table 1 |
| COV Content (DIR. 2004/42/CE) | Painting for mineral exterior walls - A category EU limit values for sub-category c, type BA 40 g/l (2010) This product contains a maximum of 40 g/l COV |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high) , Sd <0,14 m |
| Decoration on the product | 8 hrs. |
| Final hardening time | 28 days |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | $W < 0,5 \text{ kg/m}^2 \cdot \text{h}^{0,5} \text{ e } Sd < 2 \text{ m}$ |

TABLE 1

| Grain size | Layers | Consumption | Yield |
|------------|-----------|---------------------------|------------------------------|
| 0,7 mm | two coats | 2,6-3,2 kg/m ² | 0,31-0,39 m ² /kg |
| 1 mm | one coat | 1,6-2,0 kg/m ² | 0,50-0,60 m ² /kg |
| 1,2 mm | one coat | 1,8-2,2 kg/m ² | 0,45-0,55 m ² /kg |
| 1,5 mm | one coat | 2,3-2,8 kg/m ² | 0,35-0,45 m ² /kg |
| 1,8 mm | one coat | 3,0-3,5 kg/m ² | 0,28-0,33 m ² /kg |



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arteMURI 5 lime

5th CALCE
0.7-1-1.2-1.5-1.8 mm

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. It is recommended to fully soak the surface with water before application. Conduct the proper preparation of the surface according to its condition with a base of the arteMURI line like UNO FIX or PRG 10.

Product preparation

The product is ready for use but can be diluted with a maximum of 2% by weight of water. Mix thoroughly.

Application

Apply the properly diluted product with a metallic spatula, taking care to distribute it evenly onto the surface. Next, before the product begins to form a surface film, finish with circular motion using a spatula or plastic or sponge float to obtain the desired result. If you use the fine particle size 5th CALCE 0.7 mm. in two coats or if it is necessary to apply an additional layer of product, you should always wait for the first coat to be completely dry (on average, after 16 hours).

Important Notes

Do not apply when ambient or surface temperature is lower than +5°C or above +35°C and avoid application under the action of direct sunlight or strong wind. After application, the external surfaces must be protected from rain until completely dry (usually 48 hours). The final color shade strongly depends upon environmental conditions, upon application thickness and upon the absorption degree of the surface. As it is a mineral finish based on slaked lime, it requires, under standard environmental conditions, about 28 days to season until final hardening occurs. Therefore, if 5th CALCE is used onto the outer surface of a building, it is recommended to protect that surface, after one week, with a coat of breathable paint with high protection and waterproofing abilities like XIL2 FILL of the siloxane class, or with the mineral paint SIL4 OUT of the silicate class. Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next.

Avoid skin and eye contact; should it occur, wash abundantly with fresh water. Use protection goggles and gloves. Rinse all gear and equipment with water immediately after use.

Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

arteMURI
5 lime

5th SPATOLA

Decorative finish with a marmor
effect based on slaked lime



Product description and fields of use

5th SPATOLA is a mineral finish based on seasoned and modified slaked lime, extremely fine selected inerts and natural pigments. It features ease of application and shine, good water vapor permeability and good resistance to attack by molds and bacteria.

5th SPATOLA is used to decorate valuable interiors because it creates an antique effect and soft color shades with a smooth and shiny appearance. It can also be used for decorating wall surfaces and buildings of architectural interest and in restoration works of historic centers. We do not recommend using the product outside, given the current environmental conditions and the presence of polluting and aggressive elements in the atmosphere. 5th SPATOLA may be tinted with the arteMURI tintometric system.

Advantages

shiny effect
mineral decorative finish
high breathability
ease of application

Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, skim plasters and cement conglomerates of various kinds, may be finished with the decorative finish 5th SPATOLA from Fornaci Calce Grigolin, product based on light slaked lime with shiny appearance, extremely fine selected inerts, natural pigments and special additives. The minimum consumption of the finished product is equal to 0.5 kg/m².

Consumption and packaging

5th SPATOLA is supplied in 5 and 20 kg. buckets. The minimum consumption of the finished product is equal to 0.5 kg/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is about one year. Avoid freezing temperatures. If stored for longer than 3-6 months, the product tends to present a thixotropic thickening and therefore, prior to usage, it requires vigorous shaking.

Surface Preparation

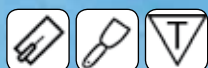
In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparatore. Possible imperfections need to be cleaned, plastered and leveled. In the case of particularly dry surfaces, it is recommended to first soak the surface with water and, if they are slightly crumbly, a prior treatment with PRG 10, diluted 1:10 with water is recommended, or with another water-based insulating product of the arteMURI line.

If the surface of the base plaster is irregular, in order to make it smooth and level, it is recommended to always apply a lime-based product using 5th CALCE 0,7 mm. or 5th MARMO, applied in one or more coats, finished with a sponge float.

Technical data

| | |
|---|---|
| Binder type | seasoned slake lime and binders in watery dispersion |
| Texture | thick and pasty |
| Specific weight (ISO 2811 at 23°C) | 1.450 ± 50 g/l |
| Viscosity | 300.000 ± 50.000 cP |
| Application | spatula and stainless steel float |
| Consumption | 0,5 kg/m ² (onto prepared surfaces) |
| Theoretical yield | 2 m ² /kg |
| COV Content (DIR. 2004/42/CE) | Paint for decorative effects-cat. A EU limit values for sub-category I, type BA 200 g./l (2010) This product contains a maximum of 200 g./l COV |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high) , Sd <0,14 m |
| Decoration on the product | 8 hours |
| Final hardening time | 28 days |

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



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arteMURI
5 lime

5th SPATOLA

Product preparation

5th SPATOLA is ready for use. Mix well to obtain the desired consistency. If the product has recently been painted and mixed mechanically, you must sometimes wait until the product regains its consistency in the bucket, before using it.

Application

Start application by levelling with a stainless steel float in two or more passes, spaced on average at 4-8 hours, depending on environmental conditions. Between coats, you can wet the surface with water to avoid and contain any shrinkage or cracking of the applied product. Before the final layer is completely dry, proceed carefully to smooth the surface by repeatedly polishing it with a smaller and adequately prepared stainless steel float, until obtaining a shiny, compact, fuzzy-looking, pleasant effect.

Important Notes

Do not apply when ambient or surface temperature is lower than +5°C or above +35°C. Do not apply 5th SPATOLA onto surfaces finished with white or fine mortars, because these may cause the peeling of the final finish, due to its limited mechanical resistance and grip to concrete. As it is a mineral finish based on slaked lime, it requires, under standard environmental conditions, about 28 days to season until final hardening occurs. Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next.

Avoid skin and eye contact; should it occur, wash abundantly with fresh water. Use protection goggles and gloves. Rinse all gear and equipment with water immediately after use.

Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

arteMURI
5 lime

5th MARMO

Decorative finish with a marmor effect based on slaked lime



Product description and fields of use

5th MARMO is a mineral decorative coating, made of seasoned and selected slaked lime, marble dust, aggregates and natural pigments.

5th MARMO is resistant to water and atmospheric agents and maintains an excellent permeability to water vapor. 5th MARMO is indicated as protective finish for interior and exterior walls, to which it gives a silky look that mimics the pleasant and compact effect of classic marble. It may also be used as a base coat for skim plasters to be subsequently finished with the application of 5th SPATOLA and thereby, achieving many decorative effects. 5th MARMO may be tinted with the arteMURI tintometric system.

Advantages

- marble effect
- mineral decorative finish
- excellent breathability
- ease of application



Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, skim plasters and cement conglomerates of various kinds, may be finished with the mineral coating with marble effect 5th MARMO from Fornaci Calce Grigolin, product based on slaked lime, marble powder, aggregates and natural, light-resistant pigments. The minimum consumption of the finished product onto prepared surface is equal to 1 kg/m².

Consumption and packaging

5th MARMO is supplied in 5 and 20 kg. buckets. The minimum consumption of the finished product onto prepared surface is equal to 1 kg/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is about one year. Avoid freezing temperatures. If stored for longer than 3-6 months, the product tends to present a thixotropic thickening and therefore, prior to usage, it requires vigorous shaking.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparatore. Possible imperfections need to be cleaned, plastered and leveled. In the case of particularly dry surfaces, it is recommended to first soak the surface with water and, if they are slightly crumbly, a prior treatment with PRG 10, diluted 1:10 with water is recommended, or with another water-based insulating product of the arteMURI line.

If the surface of the base plaster is irregular, in order to make it smooth and level, it is recommended to always apply a lime-based product using 5th CALCE 0,7 mm. applied in one or more coats, finished with a sponge float.

Technical data

| | |
|---|---|
| Binder type | seasoned slake lime and binders in watery dispersion |
| Texture | thick and pasty |
| Specific weight (ISO 2811 at 23°C) | 1.600 ± 50 g/l |
| Viscosity | 200.000 ± 50.000 cP |
| Application | spatula and stainless steel float |
| Consumption | 1 kg/m ² (onto prepared surfaces) |
| Theoretical yield | 1 m ² /kg |
| COV Content (DIR. 2004/42/CE) | Paint for decorative effects—cat. A EU limit values for sub-category I, type BA 200 g./l (2010) This product contains a maximum of 200 g./l COV |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high) , Sd <0,14 m |
| Decoration on the product | 8 hours |
| Final hardening time | 28 days |

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arteMURI
5 lime

5th MARMO

Product preparation

5th SPATOLA is ready for use. Mix well to obtain the desired consistency. If the product has recently been painted and mixed mechanically, you must sometimes wait until the product regains its consistency in the bucket, before using it.

Application

Start application by levelling with a stainless steel float in two or more passes, spaced on average at 6-10 hours, depending on environmental conditions. Between coats, you can wet the surface with water to avoid and contain any shrinkage or cracking of the applied product. Before the final layer is completely dry, proceed carefully to smooth the surface by repeatedly polishing it with a smaller and adequately prepared stainless steel float, until obtaining a compact, pleasant effect. For outdoor applications of the product, evaluate the feasibility of this procedure and, pay particular attention to environmental conditions and exposure of the support to be decorated. In some cases, you may add to the product paste about 5-8% of white Portland cement in order to increase the durability of the decorative finish. It is also recommended, for outdoor applications, to make a protective treatment after the complete carbonation of the lime-based finishing product, with the hydrophobic siloxanic REP6 in order to prevent water absorption by the decorated surface.

Important Notes

Do not apply 5th MARMO when ambient or surface temperature is lower than +5°C or above +35°C. Do not apply 5th MARMO onto surfaces finished with white or fine mortars, because these may cause the peeling of the final finish, due to its limited mechanical resistance and grip to concrete. As it is a mineral finish based on slaked lime, it requires, under standard environmental conditions, about 28 days to season until final hardening occurs.

Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next.

Avoid skin and eye contact; should it occur, wash abundantly with fresh water. Use protection goggles and gloves. Rinse all gear and equipment with water immediately after use.

Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

arteMURI
5 lime

5th STILE ANTICO

Mineral decorative intonachino,
powder, with travertine effect



Product description and fields of use

5th STILE ANTICO is a decorative mineral coating in powder, consisting of verified slaked lime, hydraulic binder, marble dust, aggregates and natural pigments. It is waterproof and weather-proof and has excellent permeability to water vapor.

The product is suitable as an interior and exterior protective finish. Depending on how the product is applied, it gives the surface a silky, pleasant and compact appearance that reproduces the classic travertine and antique finishes, with the typical shades of the stones used in monuments and fine arts buildings and villas of the past, or a marble effect stone.

5th STILE ANTICO may be decorated with the nuances of the mineral silicate canvas QUATTROVELE or with the highly protective siloxanes canvas DOPPIA VELA, in order to achieve special antique effects. In particular for outside applications, to obtain a higher protection and longer durability, it is always recommended the application of the decorative layer.

It may also be used as a base coat for smoothing and then to be finished with the application of 5th SPATOLA or 5th MARMO.

5th STILE ANTICO may be tinted with the arteMURI tintometric system.

Advantages

travertine effect
mineral decorative finish
excellent breathability
ease of application

Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, skim plasters and cement conglomerates of various kinds, may be finished with the mineral coating with marble effect 5th STILE ANTICO from Fornaci Calce Grigolin, product based on verified slaked lime, hydraulic binder, marble dust, aggregates and natural, light-resistant pigments. The minimum consumption of the finished product onto prepared surface is equal to 1,5 kg/m².

Consumption and packaging

5th STILE ANTICO is supplied in 15 kg. buckets. The minimum consumption of the finished product onto prepared surface is equal to 1,5 kg/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is about one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of

dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent.

The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparador. Possible imperfections need to be cleaned, plastered and leveled. In the case of particularly dry surfaces, it is recommended to first soak the surface with water and, if they are slightly crumbly, a prior treatment with PRG 10, diluted 1:10 with water is recommended, or with another water-based insulating product of the arteMURI line.

If the surface of the base plaster is irregular, in order to make it smooth and level, it is recommended to always apply a lime-based product using 5th CALCE 0,7 mm. applied in one or more coats, finished with a sponge float.

Product preparation

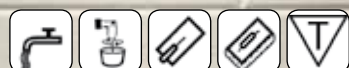
5th STILE ANTICO is mixed with about 25-30% by weight of water, so a 15 kg. bucket requires 3,5-4,5 l. of water, making sure to stir well until it reaches a homogeneous consistency.

Application

Start application by levelling with a stainless steel float in two or more pas-

Technical data

| | |
|---|---|
| Binder type | slaked lime, hydraulic binders, pigments and selected mineral aggregates |
| Texture | in white and colored powder/in sample |
| Specific weight (ISO 2811 at 23°C) | 1.500 ± 50 g/l |
| Application | spatula and stainless steel float |
| Consumption | 1,5 kg/m ² (onto prepared surfaces) |
| Theoretical yield | 0,65 m ² /kg |
| COV Content (DIR. 2004/42/CE) | Paint for decorative effects-cat. A EU limit values for sub-category I, type BA 200 g./l (2010) This product contains a maximum of 200 g./l COV |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high) , Sd <0,14 m |
| Decoration on the product | 8 hours |
| Final hardening time | 28 days |



continues onto the next page

arteMURI
5 lime

5th STILE ANTICO

ses, spaced on average at 6-10 hours, depending on environmental conditions. Between coats, you can wet the surface with water to avoid and contain any shrinkage or cracking of the applied product.

Before the final layer is completely dry, proceed to smoothing the surface until you get a semi-polished effect and then make the streaks needed to create the travertine-like effect by using a specialized tools such as a rod or any coarse brush. It is possible to obtain clean and well visible leaks by affecting the product during curing, with horizontal and vertical stripes appropriately spaced, or by brushing the surface with rubberized tape, available in various sizes, determining the distance between one leak and another either horizontally vertically. Once the product is completely dry and hard, it is possible to make a decorative and protective glazing by using QUATTROVELE or DOPPIA VELA.

In the case of exterior applications, you can make a treatment, after complete carbonation of the lime-based finishing product, with the hydrophobic siloxanic REP6 to prevent the absorption of water by the decorated surface, leaving the natural appearance of the product unchanged.

Important Notes

Do not apply 5th STILE ANTICO when ambient or surface temperature is lower than +5°C or above +35°C.

Do not apply products in thick layers or lime-based decorations, and in general based or any kind of binder, onto surfaces finished with white or fine mortars, because these may cause the peeling of the final finish, due to its limited mechanical resistance and grip to concrete. As it is a mineral finish based on slaked lime, it requires, under standard environmental conditions, about 28 days to season until final hardening occurs.

Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next.

Avoid skin and eye contact; should it occur, wash abundantly with fresh water. Use protection goggles and gloves. Rinse all gear and equipment with water immediately after use.

Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

PRG 101

Primer for the application of gypsum and lime-based plasters onto smooth concrete surfaces



Product description and fields of use

PRG 101 is formulated with special synthetic binders in aqueous dispersion and inert particles of selected grain sizes and a special grip promoter used to improve grip of lime and gypsum plasters onto concrete surfaces. It has a high binding power and adhesion, its particle size is less than 0.8 mm and is presented as a semi-covering base of green color, appropriate for tracking and then verifying the correct application of plaster over the entire surface to be treated.

Thanks to its specific composition, PRG 101 may be applied onto pre-stressed concrete surfaces, prefabricated composite, plasterboard and absorbant walls, both old as well as new.

Advantages

rough appearance
excellent grip to the surface
ease of application



Specifications

The wall surfaces of concrete and cement conglomerate, can be treated with the grip primer PRG 101 from Fornaci Calce Grigolin, product based on binders in aqueous dispersion and silicate sand. The minimum consumption of this product is equal to 0.14 l/m².

Consumption and packaging

PRG 101 is supplied in 5 and 20 kg. buckets. The minimum consumption of this product is equal to 0.14 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is about one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar.

Product preparation

Dilute PRG 101 with an average of 15-20% by volume of water for application

by roller and 25-30% for application by brush. Mix thoroughly. It is recommended to keep it constantly mixed during application.

Application

Apply one coat of PRG 101 suitably diluted by distributing the product evenly over the entire surface. The product has a green pigment to improve visibility during application. After at least 24 hours after application, after allowing the complete drying of the product, proceed with the application of the plaster.

Important Notes

Do not apply PRG 101 when ambient or surface temperature is lower than +5°C or above +35°C. The product should only be applied onto surfaces which do not show humidity in excess of 2,5%. Rinse all gear and equipment with water immediately after use. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | acrylic copolymers |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.450 ± 50 g/l |
| Viscosity | 20.000 ± 2.000 cP |
| Application | brush, roller |
| Consumption | approx. 200 g/m ² (0,14 l/m ²) |
| Theoretical yield | 7,1 m ² /l |
| COV Content (DIR. 2004/42/CE) | Grip primer-cat. A EU limit values for sub-category h type BA 30 g./l (2010) This product contains a maximum of 30 g./l COV |
| Decoration on the product | 24 hours |

PRIMER UNI-KO GM

Universal filler base for thick
plasters



Product description and fields of use

PRIMER UNI-KO GM is an universal filler base, based on styrene-acrylic copolymers in aqueous dispersion, inorganic pigments and selected inerts. The product is resistant to alkali, it has a high binding and grip power. It creates a rough surface that promotes the grip of subsequent layers of plasters of different types of finish and intonachino, it forms a structural fill and evens the irregular absorption of the surface to be treated. PRIMER UNI-KO GM is suitable for application on mortar plasters based on hydraulic lime-binder, raw or finished, to be completed later with thick intonachino. In particular, it is suitable as a base to be applied on coating systems before the final decoration.

ETA certified-product for thermal insulation systems.

Advantages

filler for intonachino
base for coating systems
high resistance to rubbing and washing
anti-algae protection
high resistance to weathering and UV

Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, skim plasters and cement conglomerates of various kinds, may be finished with the filler base, with high covering power and resistance to washing. PRIMER UNI-KO GM from Fornaci Calce Grigolin, product based on acrylic copolymers in aqueous dispersion, light-resistant pigments and selected inerts. The minimum consumption of this product is equal to 0,14 l/m².

Consumption and packaging

PRIMER UNI-KO GM is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0.14 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the

appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparador. Possible imperfections need to be cleaned, plastered and leveled.

Product preparation

In the case of application by brush, dilute with a maximum of 10% by volume of water; for application by roller, dilute with a maximum of 5% by volume of water. In both cases, mix thoroughly.

Application

Apply, taking care to distribute the product evenly over the surface. After about 16 hours, proceed with the application of the finish.

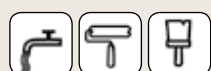
Important Notes

Do not apply when ambient or surface temperature is lower than +5°C or above +35°C and avoid application under the direct action of sunlight or strong wind. Rinse all gear and equipment with water immediately after use. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | acrylic copolymers |
| Texture | paste/rough/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.700 ± 30 g/l |
| Viscosity | 28.000 ± 3.000 cP |
| Application | brush, roller |
| brush, roller | approx. 240 g/m ² (0,14 l/m ²) |
| Theoretical yield | 7,1 m ² /l |
| COV Content (DIR. 2004/42/CE) | Grip primer-cat. A EU limit values for sub-category h type BA 30 g./l (2010) This product contains a maximum of 30 g./l COV |
| Decoration on the product | 8 hours |

ETA certified-product for thermal insulation systems.



PRG FLEX

Elastic latex in emulsion based on synthetic resin



Product description and fields of use

PRG FLEX is an elastic latex in emulsion based on synthetic resins especially designed for the construction industry and has excellent compatibility with binders like cement, gray and white, gypsum and lime, whether for indoor or outdoor use.

PRG FLEX is used as elasticizer for the preparation of joining slurries and repair mortars for walls and floors. It can also be added to a mixture of sand and cement or to our adhesives AG 01/AG 02 Plus and AG 03/AG 04 Prof to enhance the mechanical properties of grip and give them more features and flexibility. In the case of particular applications of our AG 05/AG 06 Flex, which require very high flexibility, the same PRG FLEX can be used.

Finally, it can be used to seal small cracks in fine-mortar surfaces and small cracks, ranging from 0.4 mm to a maximum of 1 mm after opening them and appropriate preparation.

Advantages

excellent elasticity
good compatibility with cement mixes
alkali-resistant

Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, finished or not, cement conglomerates and gypsum surfaces of various kinds, may be treated with elasticizing latex in emulsion PRG FLEX from Fornaci Calce Grigolin, product based on synthetic resins. The minimum consumption of this product is equal to 0,10 l./m².

Consumption and packaging

PRG FLEX is supplied in 5 and 20 l. buckets. The minimum consumption of this product is equal to 0.10 l/m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface preparation

For a crack superior to 0.4 mm, it is recommended to open it and then fill it with a mixture of water, PRG FLEX and white cement, further enriched with inerts of 0.6 mm particle size and mixed until it reaches the consistency of a putty.

Product preparation

When using the PRG FLEX as an elasticizer and in situations which require high flexibility, it is used as a substitute for

water, after being diluted with water.

Dilute PRG FLEX 1:1 ratio with water and then add the white cement to obtain a slurry which is then used to seal cracks present in fine mortars. For a crack superior to 0.4 mm, enrich the previously prepared slurry with inerts of 0.6 mm particle size and mix until it reaches the consistency of a putty.

Application

Apply the elastic slurry made with PRG FLEX directly on the cracks, in the case it is used as a sealant. Then, using a sponge float, start smoothing in order to avoid overlaps and achieve a finished surface. Do the same even if you use PRG FLEX as filler to fill larger cracks.

Important Notes

Do not apply PRG FLEX when ambient or surface temperature is lower than +5°C or above +35°C.

During application, wear protective gloves and goggles. Rinse all gear and equipment with water immediately after use. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|--|
| Binder type | acrylic copolymers |
| Texture | fluid and milky |
| Specific weight (ISO 2811 at 23°C) | 1.020 ± 30 g/l |
| Consumption | approx. 100 g/m ² (0,10 l/m ²) |
| Theoretical yield | 10 m ² /l |
| COV Content (DIR. 2004/42/CE) | Binding primer-cat. A EU limit values for sub-category h type BA 30 g./l (2010) This product contains a maximum of 30 g./l COV |



PRG 10

Primer in emulsion based on synthetic resins



Product description and fields of use

PRG 10 is a primer in emulsion based on synthetic resins, with versatility and resistance to alkali, it presents excellent compatibility with binders like cement, gray and white, gypsum and lime. PRG 10 can be used both on interior and exterior walls, because thanks to its specific composition, it shows excellent resistance to UV. Added to a mixture of sands and cement, it improves the mechanical properties and facilitates its use. It can be used as insulator for the preparation of surfaces which will receive mineral coating like our own GR 100-200-300 or finishings based on slaked lime of the lime class.

It may also be used as an anchor to bridge applications onto smooth concrete and improves the grip onto the surface of finishing products, whether based on lime or plaster. Finally, it may be used to prepare roughcast mortars for use on concrete surfaces.

Advantages

highly versatile
use as a base primer
confers mechanical strength and adhesion
excellent resistance to alkali

Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, finished or not, cement conglomerates and gypsum surfaces of various kinds, may be treated with the emulsion primer PRG 10 from Fornaci Calce Grigolin, product based on synthetic resins and UV-resistant pigments. The consumption of this product is equal to 0,06 l./m², when used as an insulator.

Consumption and packaging

PRG 10 is supplied in 5 and 20 l. buckets. The consumption of this product is equal to 0,06 l./m², when used as an insulator.

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. The smooth concrete surfaces must be free of dust, efflorescences, oils and fats.

Product preparation

Dilute PRG 10 in a ratio of 1:10 with water, if used as an insulator, while its doseage is equal to 5% by weight of the plaster to be used when using it as an anchoring bridge. Prepare a mixture of PRG 10 and water at a ratio of 1:3-1:5 and mix with a mixture of cement and sand in a ratio of 1:3 to form a roughcast mortar of the desired consistency. Always dilute PRG 10 with at least 8-10 parts water to use it as a base for our coatings GR 100-200-300.

Application

Apply PRG 10 by roller or brush, when used as an insulator for the preparation of bases ready for mineral coatings type GR 100-200-300 or finishings based on slaked lime of the lime-class.

Important Notes

Do not apply PRG 10 when ambient or surface temperature is lower than +5°C or above +35°C.

During application, wear protective gloves and goggles. Rinse all gear and equipment with water immediately after use. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|--|
| Binder type | acrylic copolymers |
| Texture | fluid and milky |
| Specific weight (ISO 2811 at 23°C) | 1.020 ± 30 g/l |
| Application | brush, roller, spray |
| Consumption | approx. 60 g/m ² (0,06 l./m ²) (as insulator) |
| Theoretical yield | 17 m ² /l |
| COV Content (DIR. 2004/42/CE) | Binding primer-cat. A EU limit values for sub-category h type BA 30 g./l (2010) This product contains a maximum of 30 g./l COV |
| Decoration on the product | 8 hours |



PRG SL T

Consolidating insulator, transparent, solvent-based, odour-free, for exteriors



Product description and fields of use

PRG SL T is an impregnation base, based on styrene-acrylic copolymers dissolved in solvents with low-impact fragrance.

The binder contained in the product, due to its high penetration power, manages to reach through the surface pores even the deepest parts of the support. Once the solvents evaporate, it produces an elastic film, tough and durable, that stops the chalking and degradation of the plaster and promotes the grip of the finishing products on the consolidated surface. The product has excellent resistance to alkalinity and smooths the absorption of the wall surface, improving the aesthetic appearance of the finish.

PRG SL T is suitable for use on wall surfaces of any kind, as an excellent background preparation for finishing. It is most appropriate for treating hard surfaces, such as old paint, well bonded to the substrate or peeling plaster and concrete.

Advantages

- high penetration power
- excellent consolidation power
- excellent water repellency
- ease of application



Specifications

The exterior wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, finished or not, cement conglomerates and gypsum surfaces of various kinds, new, seasoned or with traces of old, may be treated with the consolidating, insulating, impregnation fund PRG SL T from Fornaci Calce Grigolin, product based on styrene-acrylic copolymers dissolved in solvents with low-impact fragrance. The consumption of this product for medium-absorption surfaces is equal to 0,12 l/m², depending on surface absorption.

Consumption and packaging

The product is supplied in 5 and 25 l. buckets. The consumption of this product for medium-absorption surfaces is equal to 0,12 l/m², depending on surface absorption.

Conservation

Store at temperatures between +5°C and +35°C in original sealed containers. Under these conditions, the life of stored product is at least one year.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. The presence of molds or algae

on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparator. Possible imperfections need to be cleaned, plastered and leveled.

Product preparation

Generally, PRG SL T does not require dilution before application. However, in the case of very compact and not very absorbent surfaces, the product must be diluted up to 100% with suitable synthetic odorless thinner, adjusting the amount of the latter depending on the situation in which it is used, in order to avoid the appearance of translucent-looking mottling. In both cases, mix thoroughly.

Application

Apply one coat by brush in an uniform manner, without overlappings.

Important Notes

The product contains no water, so it can also be applied at temperatures close to +0°C. The product is flammable. The grip and functionality of the product support are not guaranteed on surfaces with salt efflorescences, or subject to moisture, so in these cases it is necessary to take preventive action to restructure the masonry. Clean tools and equipment with synthetic thinner or mineral spirits.

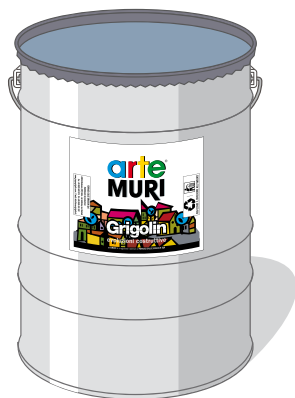
Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|--|
| Binder type | styrene-acrylic copolymers in solution |
| Texture | fluid and colorless |
| Specific weight (ISO 2811 at 23°C) | 820 ± 30 g/l |
| Application | brush, roller, spray |
| Consumption | approx. 100 g/m ² (0,12 l/m ²) |
| Theoretical yield | 8,3 m ² /l |
| COV Content (DIR. 2004/42/CE) | Binding primer-cat. A EU limit values for sub-category h type BS 750 g./l (2010) This product contains a maximum of 750 g./l COV |
| Decoration on the product | 16 hours |
| Flashpoint | +39°C |

PRG SL P

Impregnating insulator, pigmented, solvent-based, odour-free, for exteriors



Product description and fields of use

PRG SL P is a mural base, based on plasticated styrene-acrylic copolymers, low-impact odour solvents, pigments and selected mineral fillers. Thanks to its high content of binder and being solvent-based, PRG SL P penetrates through the capillary network of the support, even the deepest parts of the masonry. Therefore, it is able to consolidate in depth degraded wall surfaces and adhere tenaciously even on very compact surfaces. Furthermore, it has a high covering power, it evens out chromatically uneven surfaces, and regulates the absorption of the surface, creating the ideal foundation for finishing. PRG SL P is impervious to molds and microorganisms and grants the paint cycle a high water repellency and protection in time for the entire cycle of finishing.

It may also be used on surfaces that present difficult smoke, nicotine, soot, combustion waste and mottling stains due to old water infiltrations, by developing a barrier effect. PRG SL P may be tinted with the arteMURI tintometric system.

Advantages

- excellent coverage
- excellent adhesion
- excellent water repellency
- anti-stain power
- confers resistance to exterior cycles
- ease of application



Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, finished or not, cement conglomerates and gypsum surfaces of various kinds, may be treated with the odourless, solvent-based, pigmented base PRG SL P from Fornaci Calce Grigolin, product based on acrylic copolymers plastified in solution, mineral fillers, inerts and light-resistant pigments. The minimum consumption of this product is equal to 0,14 l./m².

Consumption and packaging

The product is supplied in 15 l. buckets. The minimum consumption of this product is equal to 0,14 l./m².

Conservation

Store at temperatures between +5°C and +35°C in original sealed containers. Under these conditions, the life of stored product is at least one year.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparator. Possible imperfections need to be cleaned, plastered and leveled.

Product preparation

Dilute PRG SL P with 25-30% by volume with synthetic odourless thinner for application by brush, with 13-18% for applications by roller. In both cases, mix thoroughly. Please note that the percentage of dilution may vary depending on the degree of absorption of the surface.

Application

The product may be applied by brush or by roller in a uniform manner, without overlappings.

Important Notes

The product contains no water, so it can also be applied at temperatures close to +0°C. The product is flammable. Before proceeding with the application of the finish, it is recommended to wait at least 24 hours when the minimum ambient temperature is +15°C. By lowering the temperature, this time will extend even up to 60 hours or more for temperatures close to +0°C. It is recommended to avoid the application under the direct action of sunlight or in the presence of strong ventilation. In case of application in enclosed rooms, provide proper ventilation. The grip to the surface is not guaranteed on supports with salt efflorescences or subject to moisture, so in these cases it is necessary to take preventive action to restructure the masonry. Clean tools and equipment after use with the thinner synthetic or mineral spirits. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|---|---|
| Binder type | styrene-acrylic copolymers in solution |
| Texture | paste/fine/pigmented |
| Specific weight (ISO 2811 at 23°C) | 1.350 ± 50 g/l |
| Viscosity | 4.000 ± 1.000 cP |
| Application | brush, roller |
| Consumption | approx. 190 g/m ² (0,14 l./m ²) |
| Theoretical yield | 7 m ² /l |
| COV Content (DIR. 2004/42/CE) | Binding primer-cat. A EU limit values for sub-category h type BS 750 g./l (2010) This product contains a maximum of 750 g./l COV |
| Decoration on the product | 24 hours |
| Flashpoint | +39°C |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | $W < 0,5 \text{ kg/m}^2 \cdot \text{h}^{0,5} \text{ e Sd} < 2 \text{ m}$ |

arteMURI
6 special

SEI NEUTRO

Mineral neutralizer for exterior and interior wall surfaces



Product description and fields of use

SEI NEUTRO is a mixture based on mineral salts and specific additives in concentrated aqueous solution. It optimally combines the functions of penetration and impregnation by reducing the absorption of the wall surfaces and thus maintaining the mineral characteristics of surfaces unchanged.

SEI NEUTRO exerts a crystallization action of salts in the capillaries of the plaster, thereby stopping the chalking process and degradation of mineral surfaces and improving the degree of adhesion of the finishing water-based paint.

The product is particularly suited for pretreatment on surfaces that present difficult smoke, nicotine, soot, combustion waste and mottling stains due to old water infiltrations. SEI NEUTRO avoids the outcrop of defects on the surface subsequently treated with any type of water-based paint.

SEI NEUTRO can be applied both on interior and exterior surfaces, such as mortar plasters based on hydraulic lime-binder, gypsum, plasterboard, and old paint with good adherence.

Advantages

mineral regulator for surfaces
blocks the absorption and chalking of surfaces
prevents the emergence of spots after paint treatment
ease of application



Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, finished or not, cement conglomerates and gypsum surfaces of various kinds, may be treated with the mineral neutralizer SEI NEUTRO from Fornaci Calce Grigolin, product based on mineral salts and special additives in aqueous solution. The minimum consumption of this product is equal to 0,10 l./m².

Consumption and packaging

SEI NEUTRO is supplied in 5 and 20 l. buckets. The minimum consumption of this product is equal to 0,10 l./m².

Conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Preparation support

In the case of new wall surfaces, it is recommended to ensure that the support has a maturation of at least 28 days. Clean surface thoroughly, removing all traces of dust, dirt, and little-adhesive parts.

Product preparation

The product is ready for use. In the case of very absorbent surfaces, it is advisable to dilute it with 100% water.

Application

Apply the product by brush or spray. In the case of gypsum-based and plaster-board surfaces, proceed with the application of two coats of SEI NEUTRAL, wet on wet.

Important Notes

The product is odourless and non-flammable. During the application, protect any metal, marble and glass parts from contact with SEI NEUTRAL. For neutralizing stains, take particular care when impregnating the margins of the affected areas. Protect for at least 24 hours from rain, after applying onto exterior wall surfaces. Use the products according to existing hygiene and safety standards. After use, do not disperse containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|------------------------------------|--|
| Binder type | aqueous mixture of mineral salts |
| Texture | fluid/semi-transparent |
| Specific weight (ISO 2811 at 23°C) | 1.220 ± 30 g/l |
| Application | brush, roller, spray |
| Consumption | approx. 120 g/m ² (0,10 l./m ²) |
| Theoretical yield | 10 m ² /l |
| COV Content (DIR. 2004/42/CE) | Binding primer-cat. A EU limit values for sub-category h type BA 30 g./l (2010) This product contains a maximum of 30 g./l COV |
| Decoration on the product | 24 hours |

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

arteMURI
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SEI OK

Sanitizing and reparator solution
for walls



Product description and fields of use

SEI OK is a solution composed of special chemical agents with broad spectrum of action that prevent the formation of mold, fungus and algae. It is particularly suitable for cleaning surfaces and restoring internal and external walls affected by the presence of molds or algae prior to treatment with anti-mold painting. Moreover, when added to dilution water for washable and breathable paints, SEI OK develops its preventive action in indoor areas.

Advantages

preventive action against molds and algae
detergent and sanitizing solution
long-term action
ease of application

Specifications

Wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, finished and concrete conglomerates of various kinds, can be treated with the mural reparator SEI OK from Fornaci Calce Grigolin, product in concentrated solution and chemical agents, indicated against the proliferation of molds and algae. The minimum consumption of this product is equal to 0.09 l/m².

Consumption and packaging

SEI OK comes in cartons containing 6 bottles of 1 l. and in buckets of 5 l. The minimum consumption of this product is equal to 0.09 l/m².

Rules on conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface preparation

Check the film condition of already painted surfaces and completely remove the degraded tempera paint or those with thick coatings and not fully adherent. Remove any present mold or algae with the detergent SEI KO and only at this point sanitize

the area with the reparator SEI OK. Possible imperfections need to be cleaned, plastered and leveled.

Preparation of the product

The product is ready to use.

Application

Apply SEI OK by brush in infested areas. An effective reparatory action takes place in no less than 48 hours, after which it is recommended to remove any surface residue through thorough brushing. In case of persistent molds or algae, apply a second coat of solution to restore the plaster in depth, completely removing any residual spores. Then, proceed to the application of the painting UNO ANTIMUFFA of the acrylic class.

Important Notes

During application, use suitable gloves and protect eyes and face. If substance comes in contact with the skin, it should be abundantly washed with water and soap. Do not apply the solution through spraying. Keep out of the reach of children.

Use products according to existing hygiene and safety standards. After use do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | watery mixture of active ingredients with broad spectrum |
| Texture | fluid and colorless |
| Specific weight (ISO 2811 at 23°C) | 1.010 ± 20 g/l |
| Application | brush |
| Consumption | 0,09 l/m ² |
| Theoretical yield | 11 m ² /l |
| COV Content (DIR. 2004/42/CE) | Fixing primer – A category EU limit values for sub-category h type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 4 hrs. |

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SEI KO

Detergent solution for cleaning molds- and algae-infested surfaces



Product description and fields of use

SEI KO is a concentrated solution that contains special chemicals which eliminate dark spots due to common types of mold, fungi and algae from wall surfaces and tiles joints.

SEI KO is suited for the cleaning and restoration of areas both interior and exterior. Moreover, the effectiveness of the product is visible in a short time from the application, because of the bleaching action that develops on the surface.

Where only small points or surfaces are affected, it is preferable to use the spray, so as not to drag the microorganisms elsewhere. Conversely, when there is a need for a more extensive decontamination, proceed with application by brush.

Advantages

oxidant detergent for cleaning algae and molds
ease of application with the spray dispenser
extremely effective

Specifications

Wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, finished, concrete conglomerates of various kinds and the spaces between tiles, can be treated with the detergent SEI KO from Fornaci Calce Grigolin, product in concentrated solution with special additives against molds, algae and fungi. The minimum consumption of this product is equal to 0.09 l/m².

Consumption and packaging

SEI KO comes in spray containers of 0,5 l. and in buckets of 5 l. The minimum consumption of this product is equal to 0.09 l/m².

Rules on conservation

Store in a ventilated area, away from direct sunlight. Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Preparation support

Check film conditions of already painted surfaces and completely remove degraded tempera paints or those with high thickness and not fully adherent. Do not scrape the mold prior to treatment with SEI KO.

Product preparation

SEI KO is ready for use.

Application

In the case of limited surfaces infested with molds, fungi or algae, perform a

uniform treatment of the concerned area, through the use of the spray bottle. Apply the product from a distance of 25-30 cm, taking care to fully soak the area. If the area is heavily deteriorated, apply SEI KO a second time in order to sanitize the surface in depth.

For larger surfaces infested with molds, fungi or algae, it is recommended to apply the product by brush.

In both situations, after at least 3 hours after application and once the surface has dried, remove the oxidized and bleached spores by brushing and make a sanitizing treatment with the reparator SEI OK.

After another 4 hours after application, proceed with the cycle of special paint using appropriate additive finishes with chemical principles that counteract the proliferation of mold and algae.

Important Notes

During application, use gloves and protect eyes and face. Any splashes on skin should be washed immediately with abundant water and soap. Do not spray on plants, fabrics or metals; if this occurs, rinse immediately with plenty of water. It is recommended to avoid product contact with acids because in this case the product releases toxic gases. Keep out of reach of children.

Use products according to existing hygiene and safety standards. After use do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details see safety sheet.

Technical data

| | |
|------------------------------------|---|
| Binder type | Solution based on active chlorine |
| Texture | fluid and colorless |
| Specific weight (ISO 2811 at 23°C) | 1.150 ± 30 g/l |
| Application | Spray or brush |
| Consumption | approx. 100 g/m ² (0,09 l/m ²) |
| Theoretical yield | 11 m ² /l |
| Decoration on the product | 6 hours |
| Content of chlorine-active | > 4% |

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ESATHERM

Mold-resistant, thermal-insulation,
anti-condensation paint for interiors



Product description and fields of use

ESATHERM is a paint for interiors which has particular insulating microparticles that enable it to solve problems related to thermal and acoustic insulation. Thanks to the barrier that the product originates on the plaster which also reduces the heat exchange between the environment and support, it reduces heat loss and thus, contributes to energy saving. Thus, ESATHERM prevents condensation and subsequent mold growth, while allowing the wall to breathe freely. The product is indicated for the painting of rooms which are particularly wet, poorly ventilated, with high condensation, such as kitchens, bathrooms, laundry rooms, indoor swimming pools, cellars, etc. ESATHERM may be tinted with the arteMURI tintometric system.

Advantages

- insulating effect
- anti-condensation effect
- anti-mold effect
- breathable and washable
- ease of application

Specifications

Interior wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, finished, concrete conglomerates of various kinds, can be treated with the anti-condensation, sound-proofing, thermal insulating paint ESATHERM from Fornaci Calce Grigolin, product based on synthetic copolymers in aqueous dispersion and special insulation micro-particles. The minimum consumption of this product is equal to 0.30 l/m² in two coats.

Consumption and packaging

ESATHERM comes in buckets of 5 and 15 l. The minimum consumption of this product is equal to 0.3 l/m² in two coats.

Rules on conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparator. Possible imperfections need to be cleaned, plastered and leveled.

Next, prepare the surface according to the specific conditions with one of the specific base products of the acrylic class, like UNO FIX, PRIMO or ONE MICRO.

Product preparation

Stir ESATHERM and then dilute it with 10-12% by volume of water, for application by brush on smooth finishes. For application by roller, dilute with 3-4% by volume of water, thus obtaining a lightly orange-peel finish. Please note that the more diluted the product, the more rounded the orange-peel finish is and the less noticeable the texture is.

Application

Apply ESATHERM by brush once the surface is dry, and after at least 4 hours after surface preparation, crossing the direction of application in the case of a smooth finish. After about 3-4 hours, proceed with the application of the second coat. In the case of a textured finish, spread evenly with a brush or wool- or short-synthetic-fiber roller.

Important Notes

Do not apply when ambient or surface temperature is below +5°C or above +40°C. Immediately after use, rinse tools and equipment with water. The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|---|--|
| Binder type | Binder type |
| Texture | paste/liquid/pigmented |
| Specific weight (ISO 2811 at 23°C) | 850 ± 30 g/l |
| Viscosity | 15.000 ± 2.000 cP |
| Application | brush, roller |
| Consumption | approx. 130 g/m ² (0,15 l/m ²) |
| Theoretical yield | 3,3 m ² /l in two coats |
| COV Content (DIR. 2004/42/CE) | Opaque paint for walls and ceilings- A category EU limit values for sub-category a, type BA 30 g/l (2010) This product contains a maximum of 30 g/l COV |
| Decoration on the product | 8 hours |
| Gloss degree (UNI EN ISO 2813) | 5-10 gloss, opaque |
| Classification of resistance to washing (UNI 10560 and/or UNI EN ISO 119998) | > 1.000 cycles, resistant |



REP6

Odour-free, solvent-based, transparent, siloxanic water-repellent



Product description and fields of use

REP6 is a protective product, water-repellent, based on polysiloxane resins in a non-film solution, alkali and weather resistant.

Thanks to its characteristics, it is particularly suitable for providing an excellent water-repelling treatment to concrete structures and wall surfaces of any kind, such as exposed concrete, cement conglomerates, wood-concrete panels or fiber-cement, stone, bricks, plaster and decorative finishes.

REP6 penetrates deep into the surface and creates a waterproof barrier and, but at the same time, it does not create a film, does not occlude the porosity of

the support, leaving the permeability to water vapor unchanged. In this way, the water cannot penetrate inside the walls and thus, it avoids both the progressive collapse of the building material due to alternate freezing and thawing, as well as the formation of whitish, unpleasant spots caused by the accumulation of water-soluble salts extracted from the wall. Moreover, REP6 does not alter the original appearance of the facades, as it does not cause changes in color or brightness.

Please note that REP6 is not suitable to be applied on gypsum surfaces.

Advantages

- no film
- excellent water repellency
- excellent breathability
- does not alter the appearance of support
- excellent protection in time of support
- ease of application

Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, finished, concrete conglomerates of various kinds, can be treated with the protective, water-repellent impregnating REP6 from Fornaci Calce Grigolin, product based on polysiloxane resins in non-filmogen solution. The minimum consumption of this product is equal to 0.30 l/m², varying strongly with the type of material to be treated.

Consumption and packaging

The product is supplied in buckets of 5 and 25 l. The minimum consumption of this product is equal to 0.30 l/m², varying strongly with the type of material to be treated.

Rules on conservation

Store at temperatures between +5°C and +35°C in original sealed containers. Under these conditions, the life of stored product is at least one year.

Technical data

| | |
|---|---|
| Binder type | polysiloxanes in solution |
| Texture | fluid and colorless |
| Specific weight (ISO 2811 at 23°C) | 800 ± 30 g/l |
| Application | brush, air spray |
| Consumption | onto normal cement, on avg. 240 g/m ² (0,30 l/m ²) |
| Theoretical yield | See Table 1 |
| Decoration on the product | 4 hrs. |
| Flashpoint | + 39°C |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high) Sd < 0,14 m |
| Permeability to liquid water (UNI EN 1062-3) | Class I (low), w < 0,1 kg/m ² *h ^{0.5} |
| Adequate for the protection of facades regarding the KUENZLE theory (DIN 18550) | W < 0,5 kg/m ² *h ^{0.5} e Sd < 2 m |

TABLE 1

| SURFACE TYPE | YIELD |
|-----------------|-----------------------------|
| Concrete | 2,5 - 4 m ² /l |
| Mineral plaster | 1,3 - 2 m ² /l |
| Natural stone | 0,7 - 5 m ² /l |
| Bricks | 1,3 - 2,5 m ² /l |



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arteMURI
6 special

REP6

Surface Preparation

Carefully brush the surface to be treated, to remove all traces of dirt, loose parts and any efflorescence. Apply REP6 only to a perfectly dry surface.

Product Preparation

REP6 is ready to use, either for applications by brush or by an air-spray gun.

Application

Apply several layers of REP6 depending on the absorption degree of the surface, proceeding always "wet on wet," if possible, to the full saturation of the surface, in order to confer high water repellency and protection to the entire cycle. Apply REP6 by brush or air-spray gun with the nozzle diameter of 1,2-1,4 mm. and a pressure of 2-2.5 kg./cm².

Important Notes

The product does not contain water and therefore, it can be applied even at temperatures close to +0°C. The product is flammable. Avoid applying under the direct action of the sun. After application, exterior surfaces should be protected from rain until completely dry, which occurs on average after 48 hours. The product develops its repelling action and its strong pearl effect after at least 24 hours from application. Thoroughly protect the parts that should not be treated with REP6. Clean tools and equipment with synthetic thinner or mineral spirits.

Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

arteMURI
6 special

SESTO
SENSO

Antique water-based canvas,
odourless, for interiors



Product description and fields of use

SESTO SENSO is a decorative water-based finish, with a pleasant and original appearance, ideal for interior design which imparts a characteristic rustic and antique effect. Furthermore, it is totally odorless and its special formulation allows the use of the environment just hours after application.

SESTO SENSO does not yellow and creates perfectly washable surfaces without any problems of appearance alteration, it is impervious to molds and bacteria, it repels dust and keeps clean in time. The product is therefore particularly suitable for the decoration of precious interiors and for use in premises subject to a high concentration of human habitation, such as offices, public buildings, kitchens and living rooms.

SESTO SENSO may be tinted with the arteMURI tintometric system.

Advantages

pleasant and original antique effect
resistance to washing
good breathability
ease of application



Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, finished, concrete conglomerates of various kinds, before treatment with the appropriate water-based paint, can be treated with the antique canvas SESTO SENSO from Fornaci Calce Grigolin, decorative coating, odourless, water-dilutable, based on special binders and transparent pigments. The consumption of this product is equal to 0.25 l/m², per coat.

Consumption and packaging

The product is supplied in buckets of 5 and 15 l. The consumption of this product is equal to 0.25 l/m², per coat.

Rules on conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Technical data

| | |
|---|---|
| Binder type | copolymers in aqueous dispersion |
| Texture | paste/soft/semi-covering |
| Specific weight (ISO 2811 at 23°C) | 1.100 ± 50 g/l |
| Viscosity | 8.000 ± 2.000 cP |
| Application | brush, PVC spatula |
| Consumption | approx. 270 g/m ² (0,25 l/m ²) |
| Theoretical yield | 4 m ² /l |
| COV Content (DIR 2004/42/CE) | Paint for decorative effects-cat. A EU limit values for sub-category I, type BA 200 g./l (2010) This product contains a maximum of 200 g./l COV |
| Decoration on the product | 8 hrs. |
| Gloss degree(UNI EN ISO 2813) | 5-10 gloss, opaque |
| Classification of resistance to washing (UNI 10560) | > 5.000 cycles, high resistance |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class I (high) Sd < 0,14 m |
| Permeability to liquid water (UNI EN 1062-3) | low, w < 0,1 kg/m ² *h ^{0,5} |

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arteMURI
6 special

SESTO SENSO

Surface Preparation

In the case of new wall surfaces, make sure that the surface has a maturation of at least 28 days. Remove the dust and any loose fragments using a soft spatula, then level out and fill the imperfections. After 6 hours from smoothing, thoroughly sand and clean the filled parts. Once the surface is dry, apply one or more layers of water-based paint, choosing the right product for the surface. Wait at least 6 hours before proceeding with the application of SESTO SENSO.

In case of crumbly interior wall surfaces, or if these are already painted with tempera paint, clean thoroughly and remove any loose fragments and fill imperfections. Then sand, dust and fix the surface with properly diluted appropriate products. Clean up any mold or algae present with the detergent SEI KO and then sterilize the surface with the reparator SEI OK. Proceed with the application of SESTO SENSO after at least 12 hours.

In the case of wood surfaces or particle board never painted before, it is recommended to clean up the already smooth surface and level surface imperfections such as knots, joints and fissures, using

the most appropriate product. Then sand the surface clean and apply one or more coats of quartz paint. Wait for 6 hours and then apply SESTO SENSO.

Prior to the application on surfaces already painted with SESTO SENSO, these must be carefully washed with ordinary detergent powder and then rinsed thoroughly. Wait until the area is completely dry and then apply one coat of quartz paint. After 6 hours, proceed with the new application of SESTO SENSO. It is recommended to sand down highly polished surfaces.

Product preparation

SESTO SENSO is ready for use, but it may be diluted up to a maximum of 2% by volume of water.

The product can be tinted with coloring pastes from the arteMURI tintometric system, making sure to thoroughly mix the paint as implemented in order to fully mix the product on the floor and walls of the container. In case of using an orbital mixer, proceed with slow speed for 2 minutes.

Application

Apply SESTO SENSO by brush, evenly, over the entire surface. After 15-30 minutes from application, when it starts drying, smooth the wall with a plastic spatula, touching the surface with light pressure, to obtain the desired effect, evenly distributing any excess material.

Please note that you can also make adjustments on the wall when the finish is dry, taking care to adequately soften the edges of the area.

Important Notes

Keep SESTO SENSO from freezing and do not apply when room or support temperature is below +5°C or above +40°C. Do apply SESTO SENSO when relative humidity is above 75% or if the degree of humidity present may cause condensation, or in extremely heated rooms. When the work is done, immediately remove any masking tape and clean the equipment with plenty of water. Do not clean surfaces decorated with SESTO SENSO with solvents and thinners. Wash with ordinary detergents, or more commonly with soap and water after at least 14 days from application.

In the case of using different applications of color, you should shuffle between them in order to avoid slight differences in appearance.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow residues time to dry and treat them as special waste. For more details, see safety sheet.

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VENESIX

Decorative finish with a stucco veneziano effect



Product description and fields of use

VENESIX is a decorative coating based on synthetic binders, calcium carbonate with fine particles, inerts and organic and inorganic pigments. It is highly water resistant and has a good permeability to water vapor.

VENESIX is a fine and decorative finish for interior walls, unique of its kind, as it offers multiple light and shade effects and nuances that can play the old Venetian plasters.

VENESIX may be tinted with the arteMURI tintometric system.

Advantages

polished antique effect
professional decorative finish
good breathability
ease of application

Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, finished, concrete conglomerates of various kinds, can be treated with the decorative finish with a stucco veneziano effect VENESIX from Fornaci Calce Grigolin, product based on synthetic binders, marble powder and calcium carbonate with fine particles. The consumption of this product onto prepared surfaces is equal to 1 kg./m².

Consumption and packaging

The product is supplied in buckets of 5 and 25 kg. The consumption of this product onto prepared surfaces is equal to 1 kg./m².

Rules on conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparator. Possible imperfections need to be cleaned, plastered and leveled.

In the case of new surfaces, prepare the surface using products from the acrylic class like UNO FIX or ONE MICRO, whilst in the presence of smooth surfaces, it is recommended to use UNI COPRIX or PRIMO.

Product Preparation

VENESIX is ready for use. Mix well until homogeneous consistency.

Application

Proceed to the application by smoothing the surface with a stainless steel float, in two or more passes, spaced on average at 6-10 hours from each other, depending on environmental conditions, to achieve a perfectly smooth surface. Remember to use of small quantities of product and spread with a stainless steel spatula in quick and determined movements. After 5 minutes, polish the surface by repeatedly pressing the spatula against the wall with semi-circular movements. To further enhance the shine effect, polish with fine sandpaper and then repeat the process of polishing with the steel spatula, until a very compact and pleasant-looking, smooth finish is obtained.

Important Notes

Do not apply VENESIX when ambient or surface temperature is lower than +5°C or above +35°C. Do not apply VENESIX onto surfaces finished with white or fine mortars, because these may cause the peeling of the final finish, due to its limited mechanical resistance and grip to concrete. Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next.

Avoid skin and eye contact; should it occur, wash abundantly with fresh water. Use protection goggles and gloves. Rinse all gear and equipment with water immediately after use.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|---|---|
| Binder type | copolymers in aqueous dispersion |
| Texture | dense and pasty |
| Specific weight (ISO 2811 at 23°C) | 1.600 ± 50 g/l |
| Viscosity | 200.000 ± 50.000 cP |
| Application | spatula and stainless-steel float |
| Consumption | 1 kg/m ² (onto prepared surfaces) |
| Theoretical yield | 1 m ² /kg |
| COV Content (DIR 2004/42/CE) | Paint for decorative effects-cat. A EU limit values for sub-category I, type BA 200 g./l (2010) This product contains a maximum of 200 g./l COV |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class II (average) Sd > 0,14 m and <1,4 m |
| Permeability to liquid water (UNI EN 1062-3) | Class I (low), w < 0,1 kg/m ² *h ^{0,5} |
| Decoration on the product | 8 hrs. |

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arteMURI
6 special

SEI SPECCHIO

Decorative stucco with self-shine finish



Product description and fields of use

SEI SPECCHIO is a wall coating for interior decoration, consisting of finely ground white crystalline fillers, which allow for the obtaining of a gloss and color depth of a polished surface.

This decorative and protective finish is water resistant and maintains a good permeability to water vapor. The ease of application, both in depth and in polishing, permits the use on large size surfaces of any type, if properly prepared. SEI SPECCHIO may be tinted with the arteMURI tintometric system.

Advantages

- shiny effect
- ease of application
- decorative finish
- good breathability
- excellent resistance to cleaning

Specifications

The wall surfaces, such as mortar plasters based on hydraulic lime-binder, premixed and traditional, finished, concrete conglomerates of various kinds, can be treated with the decorative stucco with a self-shine effect SEI SPECCHIO from Fornaci Calce Grigolin, product based on white marble powder and fine particles. The consumption of this product onto prepared surfaces is equal to 1 kg./m².

Consumption and packaging

SEI SPECCHIO is supplied in buckets of 25 kg. The consumption of this product onto prepared surfaces is equal to 1 kg./m².

Rules on conservation

Store at temperatures between +5°C and +40°C in original sealed containers. Under these conditions, the life of stored product is at least one year. Avoid freezing temperatures.

Surface Preparation

In the case of new wall surfaces, the support must be seasoned, dry, free of dust and little adhesive parts. To level and plaster imperfections such as holes, cracks or crannies, intervene first with the appropriate restoration product or mortar. On surfaces already painted with mineral paints, completely remove the thick or degraded paint and not fully adherent. The presence of molds or algae on the surface should be treated with the SEI KO detergent and sanitized with SEI OK reparator. Possible imperfections need to be cleaned, plastered and leveled. In the case of new surfaces, prepare the surface using products from the acrylic class like UNO FIX or ONE MICRO, whilst in the presence of smooth surfaces, it is recommended to use UNI COPRIX or PRIMO.

Product Preparation

SEI SPECCHIO is ready for use. Mix well until homogeneous consistency.

Application

Proceed to the application by smoothing the surface with a stainless steel float, in two or more passes, spaced on average at 6-10 hours from each other, depending on environmental conditions, to achieve a perfectly smooth surface. Before the final coat has dried, proceed with a careful and repeated smoothing with a stainless steel float, usually smaller and adequately prepared, to obtain a very compact, smooth, shiny and pleasant-looking coating.

Important Notes

Do not apply SEI SPECCHIO when ambient or surface temperature is lower than +5°C or above +35°C. Do not apply SEI SPECCHIO onto surfaces finished with white or fine mortars, because these may cause the peeling of the final finish, due to its limited mechanical resistance and grip to concrete.

Use sufficient material to perform all the work from the same batch. In the case of use of different batches of product, it is advisable to mix them with each other in order to avoid slight differences in hue. Avoid at all costs the application of different batches on the same surface and finish the wall concerned with one batch, and then continue the painting on the wall to the edge with the next.

Rinse all gear and equipment with water immediately after use.

The product does not require hazard labeling according to existing regulations. Use the products according to existing standards of hygiene and safety. After use, do not disperse the containers into the environment. Allow the residue time to dry and treat them as special waste. For more details, see safety sheet.

Technical data

| | |
|---|---|
| Technical data | copolymers in aqueous dispersion |
| Texture | dense and pasty |
| Specific weight (ISO 2811 at 23°C) | 1.650 ± 50 g/l |
| Viscosity | 200.000 ± 50.000 cP |
| Application | spatula and stainless-steel float |
| Consumption | 1 kg/m ² (onto prepared surfaces) |
| Theoretical yield | 1 m ² /kg |
| COV Content (DIR 2004/42/CE) | Paint for decorative effects-cat. A EU limit values for sub-category I, type BA 200 g./l (2010) This product contains a maximum of 200 g./l COV |
| Decoration on the product | 8 hrs. |
| Gloss degree (UNI EN ISO 2813) | 5-10 gloss, opaque |
| Permeability to water vapor (UNI EN ISO 7783-2) | Class II (average) Sd > 0,14 m and <1,4 m |
| Permeability to liquid water (UNI EN 1062-3) | Class I (low), w < 0,1 kg/m ² *h ^{0.5} |

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arteMURI specific skim plasters

MINERALFLEX

Glue and skim plaster for coating
cycles in cork and mineral wool



Product Description

Dry premixed mineral skim plaster of white color, made of carefully selected inerts, a blend of white hydraulic and slaked binders, specific additives that give the product good grip, high workability and a high mechanical strength.

Supply and storage

MINERALFLEX is supplied in bags of 25 kg on pallets with stretch. Store covered and use within 6 months.

Surface Preparation and Application

Surfaces must be free of dust and dirt. Traces of oils, fats, waxes, etc. must first be removed, as well as any loose parts. Prepare the dough by adding, for each 25 kg. bag of MINERALFLEX, about 6-7 liters of clean water and mix by hand or mechanical shaker until dough is smooth and free of lumps. The mixture thus obtained has a pot life of 6 hours. Allow to stand for 10 minutes, stir again and apply normally with the notched trowel onto panel, tapping it, if necessary, to make it more adherent to the substrate. The panels must be installed in any case offset by using, when necessary, appropriate attachment plugs. Then, after at least 48-72 hours proceed, using the same product, to smooth the panels using a toothed spatula, taking care to observe a minimum thickness of 5 mm, so that an alkali-resistant, fiber glass mesh may be embedded. Before operating the finishing (wall coverings), wait for at least 14 days.

Fields of application

MINERALFLEX is a glue used for bonding and smoothing cork or mineral wool insulation panels in the coating system. MINERALFLEX can also be used to level plaster surfaces showing imperfections and is particularly suitable for applications and finishes if you wish to obtain high mechanical performance surface. It is used to embed reinforcement meshes.

Specifications

Insulating panels made of cork or mineral wool will be glued with the flexible, white powder adhesive MINERALFLEX from Fornaci Calce Grigolin, based on hydraulic and slaked binders, selected sands, resins and special additives to improve workability and grip at a rate of 10-12 kg/m² (bonding and shaving). Surfaces must be clean and stable; subsequently, after at least 48-72 hours, proceed to shave the panels with the same product. After at least 14 days, proceed with a final application of the thick wall coating finish.

Technical data according to UNI EN 998-1

| | |
|--------------------------------------|---|
| Specific weight | 1.300 kg/m ³ determined in free fall |
| Particle size | < 1,2 mm |
| Application thickness | 2-3 mm. per coat |
| Water in the mix | approx. 28% |
| Consumption | 1,5 kg/m ² per mm. thickness |
| Pot life | approx. 4 hrs. |
| Resistance to compression at 28 days | category CS IV |
| Resistance to compression | 10,0 N/mm ² |
| Resistance to flexion | 4,5 N/mm ² |
| Adhesion to brick | 1,2 N/mm ² |
| Fracture type | A |
| Permeability to water vapors μ | 14 |
| Water absorption | W1 |
| Resistance to fire | A1 class |
| pH | > 12 |
| Thermal conductivity λ | 0,36 W/mK (tabulated value) |

Disclaimers

Do not mix MINERALFLEX with other substances. Avoid strong temperature changes during the hardening phase; the product must be protected from frost and rapid drying. Do not use MINERALFLEX when temperatures are below +5°C or above +25°C. For applications on plaster, laid with high thickness, verify the correct maturation thereof. Given the high mechanical strength of MINERALFLEX, do not apply on inconsistent surfaces without a proper consolidation cycle.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



arteMURI specific skim plasters

RASOFLEX

Mineral skim plaster for reinforcement cycles



Product Description

Dry premixed mineral skim plaster of white color, made of carefully selected inerts, a blend of white hydraulic and slaked binders, specific additives that give the product high workability, good elasticity and water-repellence, without affecting its permeability to water vapor.

Supply and storage

RASOFLEX is supplied in bags of 25 kg on pallets with stretch. Store covered and use within 6 months.

Surface Preparation and Application

Surfaces must be free of dust and dirt. Traces of oils, fats, waxes, etc. must first be removed, as well as any loose parts. Prepare the dough by adding, for each 25 kg. bag of RASOFLEX, about 6-7 liters of clean water and mix by hand or mechanical shaker until dough is smooth and free of lumps. The mixture thus obtained has a pot life of 6 hours. Allow to stand for 10 minutes, stir again and apply normally with a metallic spatula, with a thickness of 2-3 mm. per coat (if the material is a thermal plaster, do not exceed this thickness). Any smoothing of the product must be done while the product is still in the plastic phase, reviving it by moistening the surface of the material applied and subsequently working with the sponge float, until a smooth finish is obtained.

Fields of application

RASOFLEX may be used to level base plaster surfaces that present imperfections, before applying the colored finish thickness. The specific formulation makes it particularly suitable for applications on insulating plasters before applying the finish, in order to improve

the texture surface; such action shall be made on a properly seasoned insulating plaster (1 week per cm. of thickness applied). It is used in restoration work to embed reinforcement networks.

The ease of application and the specific grain size, allow for the obtaining, by application of the product in two coats (the second coat shall be applied when the former is completely dry), of a finishing perfectly suitable to receive a thin paint film. It may also be used for leveling insulation panels from cork or mineral wool in the coating system.

Specifications

The surfaces will be leveled with the multipurpose powder skim plaster RASOFLEX from Fornaci Calce Grigolin, based on white hydraulic and slaked binders, selected sands, resins and special additives to improve workability, grip and water repellence at a rate of 1,5 kg/m² per mm. of thickness. Surfaces must be clean and stable. Later, after at least 14 days, it is possible to proceed with the application of the color finish to final thickness. For applications of thin film paintwork, assess the specifications of the manufacturer.

Technical data according to UNI EN 998-1

| | |
|--------------------------------------|--|
| Specific weight | 1200 kg/m ³ determined in free fall |
| Particle size | < 0,8 mm |
| Application thickness | 2-3 mm. per coat |
| Water in the mix | approx. 27% |
| Consumption | 1,5 kg/m ² per mm. thickness |
| Pot life | approx. 4 hrs. |
| Resistance to compression at 28 days | category CS III |
| Resistance to compression | > 4,0 N/mm ² |
| Resistance to flexion | > 2,0 N/mm ² |
| Adhesion to brick | 1,0 N/mm ² |
| Fracture type | A |
| Permeability to water vapors μ | 14 |
| Water absorption | W1 |
| Resistance to fire | A1 class |
| pH | > 12 |
| Thermal conductivity λ | 0,39 W/mK (tabulated value) |

Disclaimers

Do not mix RASOFLEX with other substances. Avoid strong temperature changes during the hardening phase; the product must be protected from frost and rapid drying. Do not use RASOFLEX when temperatures are below +5°C or above +25°C. For applications on plaster, laid with high thickness, verify the correct maturation thereof.

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arteMURI specific skim plasters

MONOFLEX

Mineral skim plaster for reinforcement cycles



Product Description

Dry premixed mineral skim plaster of gray color, made of carefully selected inerts, a blend of hydraulic and slaked binders, specific additives that give the product high workability, good elasticity and water-repellence, without affecting its permeability to water vapor.

Supply and storage

MONOFLEX is supplied in bags of 25 kg on pallets with stretch. Store covered and use within 6 months.

Surface Preparation and Application

Surfaces must be free of dust and dirt. Traces of oils, fats, waxes, etc. must first be removed, as well as any loose parts. Prepare the dough by adding, for each 25 kg. bag of MONOFLEX, about 6-7 liters of clean water and mix by hand or mechanical shaker until dough is smooth and free of lumps. The mixture thus obtained has a pot life of 6 hours. Allow to stand for 10 minutes, stir again and apply normally with a metallic spatula, with a thickness of 2-3 mm. per coat.

Fields of application

MONOFLEX may be used to level base plaster surfaces that present imperfections, before applying the colored finish thickness. The specific formulation makes it particularly suitable for applications where good mechanical superficial

strength is required. It is used in restoration work to embed reinforcement meshes. It can also be used for leveling insulation panels made of polystyrene, cork or mineral wool in the coating system.

Specifications

The surfaces will be leveled with the multipurpose powder skim plaster RASOFLEX from Fornaci Calce Grigolin, based on white hydraulic and slaked binders, selected sands, resins and special additives to improve workability, grip and water repellence at a rate of 1,5 kg/m² per mm. of thickness. Surfaces must be clean and stable. Later, after at least 14 days, it is possible to proceed with the application of the color finish to final thickness. For applications of thin film paintwork, assess the specifications of the manufacturer.

Technical data according to UNI EN 998-1

| | |
|--------------------------------------|--|
| Specific weight | 1350 kg/m ³ determined in free fall |
| determined in free fall | < 0,8 mm |
| Application thickness | 2-3 mm. per coat |
| Water in the mix | approx. 26% |
| approx. 26% | 4-6 kg/m ² (only shaving)* |
| Pot life | approx. 8 hrs. |
| Resistance to compression at 28 days | category CS IV |
| Resistance to compression | 11 N/mm ² |
| Resistance to compression | 5 N/mm ² |
| Adhesion to brick | 1,2 N/mm ² |
| Fracture type | A |
| Fracture type | 14 |
| Water absorption | W1 |
| Resistance to fire | A1 class |
| pH | > 12 |
| Flexibility | high |
| Thermal conductivity λ | 0,42 W/mK (tabulated value) |

* Values depend on the type of tile and surface.

Disclaimers

Do not mix MONOFLEX with other substances. Avoid strong temperature changes during the hardening phase; the product must be protected from frost and rapid drying. Do not use MONOFLEX when temperatures are below +5°C or above +25°C. For applications on plaster, laid with high thickness, verify the correct maturation thereof.



arteMURI specific skim plasters

FIBROFLEX

Fiber-reinforced universal skim-plaster



Product Description

Dry premixed mineral fiber-reinforced skim plaster of white color, based on carefully selected inerts, a blend of white hydraulic and slaked binders, synthetic polypropylene fibers and special additives that give the product good mechanical strength, high workability and good flexibility, without compromising permeability to water vapor.

Supply and storage

FIBROFLEX is supplied in bags of 25 kg on pallets with stretch. Store covered and use within 6 months.

Surface Preparation and Application

Surfaces must be free of dust and dirt. Traces of oils, fats, waxes, etc. must first be removed, as well as any loose parts. Prepare the dough by adding, for each 25 kg. bag of FIBROFLEX, about 6-7 liters of clean water and mix by hand or mechanical shaker until dough is smooth and free of lumps. The mixture thus obtained has a pot life of 6 hours. Allow to stand for 10 minutes, stir again and apply normally with a metallic spatula, with a thickness of 2-3 mm. per coat (if the material is a thermal plaster, do not exceed this thickness). Any smoothing of the product must be done while the product is still in the plastic phase, reviving it by moistening the surface of the material applied and subsequently working with the sponge float until a smooth finish is obtained. Before operating the finishing (wall coverings), wait for at least 14 days.

Fields of application

FIBROFLEX is a smoother premix, particularly suitable in carrying out restoration work, used to level plaster surfaces which present imperfections. The specific formulation allows for the leveling

of plaster that differ in thickness up to 5 mm and can heal cracks introduced on a plaster background before carrying out the cycle of finishing. FIBROFLEX is particularly suitable for applications on insulating plaster, on certain types of insulating brick (aerated concrete blocks and mineralized wood) or mineral insulating panels before the applying the finish; this action shall be made only onto properly seasoned insulating plaster (1 week per inch of thickness applied). It is used for leveling polystyrene insulation panels to the coating system. It can also be used for leveling and pasting insulation cork or mineral wool panels in the coating system. It is used to embed reinforcement meshes.

Specifications

The surfaces to be levelled will be prepared with FIBROFLEX from Fornaci Calce Grigolin, based on white cement, selected sands, synthetic polypropylene fibers, resins and special additives to improve workability and grip at a rate of 1,2-1,3 kg./m². Surfaces must be clean and stable. After at least 14 days, proceed with a final application of the thick wall coating finish.

Technical data

| | |
|--------------------------------------|--|
| Specific weight | 1200 kg/m ³ determined in free fall |
| Particle size | < 1,25 mm |
| Particle size | 2-3 mm. per coat |
| Water in the mix | approx. 30% |
| Consumption | 1,4 kg/m ² per mm. thickness |
| Pot life | approx. 4 hrs. |
| Resistance to compression at 28 days | category CS III |
| Resistance to compression | > 3,5 N/mm ² |
| Resistance to flexion | > 1,8 N/mm ² |
| Adhesion to brick | 1,2 N/mm ² |
| Fracture type | A |
| Flexibility | good |
| Resistance to fire | A1 class |
| Water absorption | W1 |
| Permeability to water vapors μ | 13 |
| pH | > 12 |
| Thermal conductivity λ | 0,36 W/mK (tabulated value) |

Disclaimers

Do not mix FIBROFLEX with other substances. Avoid strong temperature changes during the hardening phase; the product must be protected from frost and rapid drying. Do not use FIBROFLEX when temperatures are below +5°C or above +25°C. For applications on plaster, laid with high thickness, verify the correct maturation thereof.



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arteMURI specific skim plasters

UNIFLEX

Universal glue and skim-plaster for coating cycles



Product Description

Dry premixed mineral glue and skim-plaster of white color, based on carefully selected inerts, a blend of white hydraulic and slaked binders, specific additives that give the product high adhesive strength and elasticity, good workability and water-repellence, without affecting its permeability to water vapor.

Supply and storage

UNIFLEX is supplied in bags of 25 kg on pallets with stretch. Store covered and use within 6 months.

Surface Preparation and Application

Surfaces must be free of dust and dirt. Traces of oils, fats, waxes, etc. must first be removed, as well as any loose parts. Prepare the dough by adding, for each 25 kg. bag of UNIFLEX, about 7-8 liters of clean water and mix by hand or mechanical shaker until dough is smooth and free of lumps. The mixture thus obtained has a pot life of 6 hours. Allow to stand for 10 minutes, stir again and apply normally with the notched trowel onto panel, tapping it, if necessary, to make it more adherent to the substrate. The panels must be installed in any case offset by using, when necessary, appropriate attachment plugs. Then, after at least 48-72 hours proceed, using the same product, to smooth the panels using a toothed spatula, taking care to observe a minimum thickness of 4 mm, so that an alkali-resistant, fiber glass mesh may be embedded. Before operating the finishing (wall coverings), wait for at least 14 days.

Fields of application

UNIFLEX is an universal premixed adhesive and skim-plaster, used for leveling

and bonding insulation panels made of polystyrene, cork or mineral wool to the coating system. The specific formulation makes it particularly suitable for thick leveling (4-6 mm) and achieves a high degree of coverage. It can also be used to perform shavings on plasters laid with high thickness, or thermal plasters in order to homogenize the surface for subsequent finishing. It is used to embed reinforcement meshes.

Specifications

Insulating polystyrene, cork or mineral wool panels will be glued with the adhesive skim plaster UNIFLEX from Fornaci Calce Grigolin, based on white cement, selected sands, resins and special additives to improve workability and grip at a rate of 8-10 kg./m² (bonding and shaving). Surfaces must be clean and stable; then after at least 48-72 hours it is possible, using the same product, to start shaving panels, with a shaving thickness between 4 and 6 mm., depending on particular requirements. After at least 14 days, proceed with a final application of the thick finish wall coating.

Technical data according to UNI EN 998-1

| | |
|--------------------------------------|---|
| Specific weight | 1350 kg/m ³ determined in free fall |
| Particle size | < 1,25 mm |
| Particle size | 2-3 mm. per coat |
| Water in the mix | approx. 28% |
| Consumption | 8/10 kg/m ² (adhesive+skim plaster)* 4/6 kg/m ² (skim plaster only)* |
| Pot life | approx. 4 hrs. |
| Resistance to compression at 28 days | category CS III |
| Resistance to compression | > 5,0 N/mm ² |
| Resistance to compression | > 1,7 N/mm ² |
| Adhesion to brick | 1,2 N/mm ² |
| Fracture type | A |
| Flexibility | good |
| Permeability to water vapors μ | 14 |
| Water absorption | W1 |
| Resistance to fire | A1 class |
| pH | > 12 |
| Thermal conductivity λ | 0,38 W/mK (tabulated value) |

* Values depend on the type of tile and surface.

Disclaimers

Do not mix UNIFLEX with other substances. Avoid strong temperature changes during the hardening phase; the product must be protected from frost and rapid drying. Do not use UNIFLEX when temperatures are below +5°C or above +25°C. For applications on plaster, laid with high thickness, verify the correct maturation thereof.



arteMURI specific skim plasters

STIROFLEX

Universal glue and skim-plaster for polystyrene coating cycles



Product Description

Dry premixed mineral glue and skim-plaster, based on carefully selected inerts, a blend of white hydraulic and slaked binders, specific additives that give the product high adhesive strength and elasticity, good workability and water-repellence, without affecting its permeability to water vapor.

Supply and storage

STIROFLEX is supplied in bags of 25 kg on pallets with stretch. Store covered and use within 6 months.

Surface Preparation and Application

Surfaces must be free of dust and dirt. Traces of oils, fats, waxes, etc. must first be removed, as well as any loose parts. Prepare the dough by adding, for each 25 kg. bag of STIROFLEX, about 7-8 liters of clean water and mix by hand or mechanical shaker until dough is smooth and free of lumps. The mixture thus obtained has a pot life of 6 hours. Allow to stand for 10 minutes, stir again and apply normally with the notched trowel onto panel, tapping it, if necessary, to make it more adherent to the substrate. The panels must be installed in any case offset by using, when necessary, appropriate attachment plugs. Then, after at least 48-72 hours proceed, using the same product, to smooth the panels using a toothed spatula, taking care to observe a minimum thickness of 3 mm, so that an alkali-resistant, fiber glass mesh may be embedded. Before operating the finishing (wall coverings), wait for at least 14 days.

Fields of application

STIROFLEX is a high adhesion and flexibility premixed used to glue and levelling polystyrene foam insulation panels in the coating system. It can also be used for laying fiber glass mesh or leveling CLS elements.

Specifications

Insulating polystyrene panels will be glued with the gray or white, powder flexible adhesive STIROFLEX from Fornaci Calce Grigolin, based on hydraulic and slaked binders, selected sands, resins and special additives to improve workability and grip at a rate of 8-10 kg./m² (bonding and shaving). Surfaces must be clean and stable; then after at least 48-72 hours it is possible to start shaving panels, using the same product. After at least 14 days, proceed with a final application of the thick finish wall coating.

Technical data according to UNI EN 998-1

| | |
|--------------------------------------|---|
| Specific weight | 1350 kg/m ³ determined in free fall |
| Max. diameter | 0,8 mm |
| Application thickness | 2-3 mm. per coat |
| Available colors | white and grey |
| Water in the mix | approx. 23% |
| Consumption | 8/10 kg/m ² (adhesive+skim plaster)* 4/6 kg/m ² (skim plaster only)* |
| Pot life | approx. 4 hrs. |
| Open time | approx. 30 min. |
| Adjustment interval | approx. 60 min. |
| Resistance to compression at 28 days | CS IV category |
| Resistance to compression | 9 N/mm ² |
| Resistance to flexion | 4 N/mm ² |
| Adhesion to brick | 1,5 N/mm ² |
| Fracture type | A |
| Flexibility | Flexibility |
| Permeability to water vapors μ | 15 |
| Water absorption | W1 |
| Resistance to fire | A1 class |
| pH | > 12 |
| Thermal conductivity λ | 0,42 W/mK (tabulated value) |

* Values depend on the type of tile and surface.

Disclaimers

Do not mix STIROFLEX with other substances. Avoid strong temperature changes during the hardening phase; the product must be protected from frost and rapid drying. Do not use STIROFLEX when temperatures are below +5°C or above +25°C.



The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

arteMURI specific skim plasters

EASYFLEX

Lightweight universal glue and skim-plaster for coating cycles



Product Description

Dry premixed mineral glue and skim-plaster of white color, based on carefully selected inerts, polystyrene, a blend of white hydraulic and slaked binders, specific additives that give the product high adhesive strength and elasticity, good workability and water-repellence, without affecting its permeability to water vapor. The light weight of the product facilitates application.

Supply and storage

EASYFLEX is supplied in bags of 20 kg on pallets with stretch. Store covered and use within 6 months.

Surface Preparation and Application

Surfaces must be free of dust and dirt. Traces of oils, fats, waxes, etc. must first be removed, as well as any loose parts. Prepare the dough by adding, for each 20 kg. bag of EASYFLEX, about 5-6 liters of clean water and mix by hand or mechanical shaker until dough is smooth and free of lumps. The mixture thus obtained has a pot life of 6 hours. Allow to stand for 10 minutes, stir again and apply normally with the notched trowel onto panel, tapping it, if necessary, to make it more adherent to the substrate. The panels must be installed in any case offset by using, when necessary, appropriate attachment plugs. Then, after at least 48-72 hours proceed, using the same product, to smooth the panels using a toothed spatula, taking care to observe a minimum thickness of 3 mm, so that an alkali-resistant, fiber glass mesh may be embedded. Before operating the finishing (wall coverings), wait for at least 14 days.

Fields of application

EASYFLEX is a premixed universal glue and skim-plaster used for leveling and bonding polystyrene insulation panels in

the coating system. The specific formula makes it particularly suitable for thickness leveling (3-6 mm) and achieves a high degree of coverage. It can also be used to perform plaster levelings, laid with high thickness, or thermo-plasters in order to homogenize the surface for subsequent finishing. It is used to embed reinforcement meshes. Through the use of polystyrene, it is particularly recommended in all the interventions which require low values of thermal conductivity, including the levelling layer.

Specifications

Insulating polystyrene panels will be glued with the adhesive skim plaster EASYFLEX from Fornaci Calce Grigolin, based on white cement, selected sands, resins and special additives to improve workability and grip at a rate of 8-10 kg./m² (bonding and shaving). Surfaces must be clean and stable; then after at least 48-72 hours it is possible, using the same product, to start shaving panels, with a shaving thickness between 3 and 6 mm., depending on particular requirements. After at least 14 days, proceed with a final application of the thick finish wall coating.

Technical data according to UNI EN 998-1

| | |
|--------------------------------------|---|
| Specific weight | 1100 kg/m ³ determined in free fall |
| Max. diameter | < 1,25 mm |
| Application thickness | 2-3 mm. per coat, up to max. 6 mm. |
| Water in the mix | approx. 28% |
| Consumption | 8/10 kg/m ² (adhesive+skim plaster)* 4/6 kg/m ² (skim plaster only)* |
| Pot life | approx. 4 hrs. |
| Resistance to compression at 28 days | CS II category |
| Resistance to compression | > 2,0 N/mm ² |
| Resistance to flexion | > 1,0 N/mm ² |
| Adhesion to brick | 0,8 N/mm ² |
| Fracture type | A |
| Flexibility | good |
| Permeability to water vapors μ | 14 |
| Water absorption | W1 |
| Resistance to fire | A1 class |
| pH | > 12 |
| Thermal conductivity λ | 0,35 W/mK (tabulated value) |

* Values depend on the type of tile and surface.

Disclaimers

Do not mix EASYFLEX with other substances. Avoid strong temperature changes during the hardening phase; the product must be protected from frost and rapid drying. Do not use EASYFLEX when temperatures are below +5°C or above +25°C. For applications on plaster, laid with high thickness, verify the correct maturation thereof.



arteMURI specific skim plasters

BIOFLEX

Mineral bio-skim-plaster for reinforced cycles, based on natural hydraulic lime



Product Description

Dry premixed mineral skim-plaster, based on carefully selected inerts, a blend of white hydraulic and slaked binders, specific additives that give the product good workability, elasticity and water-repellence, without affecting its permeability to water vapor and biodegradability.

Supply and storage

BIOFLEX is supplied in bags of 25 kg on pallets with stretch. Store covered and use within 6 months.

Surface Preparation and Application

Surfaces must be free of dust and dirt. Traces of oils, fats, waxes, etc. must first be removed, as well as any loose parts. Prepare the dough by adding, for each 25 kg. bag of BIOFLEX, about 6-7 liters of clean water and mix by hand or mechanical shaker until dough is smooth and free of lumps. The mixture thus obtained has a pot life of 6 hours. Allow to stand for 10 minutes, stir again and apply normally with a metallic spatula, with a thickness of 2-3 mm. per coat (if the material is a thermal plaster, do not exceed this thickness). Any smoothing of the product must be done while the product is still in the plastic phase, reviving it by moistening the surface of the material applied and subsequently working with the sponge float until a smooth finish is obtained.

Fields of application

BIOFLEX can be used to level and shave surfaces of base plaster that present imperfections, before applying the thick colored finish coat. It is used in restoration works or in combination with the plasters of the PALLADIO line; it is an ideal base for any smooth finishes (type spatula) made with organic products based on lime putty. The specific formula makes it particularly suitable for applications on insulating plaster before applying

the finish, in order to improve surface consistency; such an intervention should only be done onto properly seasoned plasters (1 week per cm. of thickness applied). It is used to embed reinforcement meshes. The ease of application and the specific grain size, allow for the obtaining—by applying the product in two coats (the second coat shall be applied when the former is completely hardened)—of a finishing perfectly suitable to receive a thin film paint based on products with high permeability to water vapor (silicate, lime, etc.). It can also be used for mineral shaving of cork or mineral wool insulation panels to the coating system.

Specifications

The plastered surfaces will be leveled with the multi-purpose powder skim plaster BIOFLEX from Fornaci Calce Grigolin, based on hydraulic binders of natural origins with high purity and low soluble salt content, slaked lime, selected sands, resins and special additives to improve workability and grip at a rate of 1,3 kg./m² per mm. of thickness applied. After at least 14 days, proceed with a final application of the thick finish wall coating. For applications which require a fine film paint, check producer's specifications. If used as a fine finish, apply in two coats, at an interval of at least 24 hrs. from one another.

Technical data according to UNI EN 998-1

| | |
|--------------------------------------|--|
| Specific weight | 1300 kg/m ³ determined in free fall |
| Grain size | < 0,8 mm |
| Application thickness | 2-3 mm. per coat |
| Water in the mix | approx. 28% |
| Consumption | 3-4 kg/m ² (skim plaster only)* |
| Pot life | approx. >6 hrs. |
| Resistance to compression at 28 days | CS III category |
| Resistance to compression | > 3,5N/mm ² |
| Resistance to flexion | > 1,2 N/mm ² |
| Adhesion to brick | 0,8 N/mm ² |
| Fracture | A |
| Permeability to water vapors μ | 9 |
| Water absorption | W1 |
| Resistance to fire | A1 class |
| pH | > 12 |
| Thermal conductivity λ | 0,38 W/mK (tabulated value) |

* Values depend on the type of tile and surface.

Disclaimers

Do not mix BIOFLEX with other substances. Avoid strong temperature changes during the hardening phase; the product must be protected from frost and rapid drying. Do not use BIOFLEX when temperatures are below +5°C or above +25°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



arteMURI
specific skim plasters

MARMORINO GR 100-200-300

Precious mineral wall decoration,
extra-white



ETA
05/0196



ETA
07/0145

Product Description

Extra-white wall decoration, ready for use, prepared with carefully classified white marble, hydrated lime, hydraulic binder, water-repellent agent and specific additives to improve the application and enhance the brightness characteristics, without altering the natural mineral characteristics of the product.

Supply and storage

GR 100-200-300 is supplied in bags on pallets with stretch. Store in a cool, dry, and non-ventilated area. Keep packaging intact.

Surface Preparation and Application

The surface, once freed from dust, oil, grease, brittle and inconsistent parts, must first be treated with our PRG 10 primer, diluted (1:8 - 1:10), applied in several coats, in order to obtain a substrate with uniform absorption. GR 100-200-300 can be prepared either by mixer or by hand, adding water (about 30 liters per 100 kg. dry weight) until a homogeneous mixture, free of lumps is obtained. The dough thus prepared should be allowed to stand for approx. 15 minutes and can be used in the next 2 hours. The coating is spread with a metal spatula and finished with a plastic spatula or with a sponge float, depending on the applied particle size and the final design. Avoid the application of GR 100-200-300 on one side at different times.

Fields of application

GR 100-200-300 is used as a plaster finish both for interior and exterior surfaces. For exterior applications, we recommend using waterproof background plasters, like our own FGK 12

and IGK 14. For application on insulating plasters, like our HYDROTHERM, or in the presence of irregular plasters, it is advisable to apply a skim plaster with AG 10 Rasotherm or alternatively AG 14 Polyflex (once the hardening of the skim plaster has occurred, proceed with the application of GR). In the presence of particularly absorbent substrates, it is necessary a treatment with our PRG 10, diluted (1:8): this operation will avoid the formation of possible disparities on the coated surface finish.

Specifications

The finish of the surface plastered with hydraulic lime-binder plaster will be done with the mineral coating type GR 100-200-300 from Fornaci Calce Grigolin, dry premixed based on accurately classified white marble, hydraulic and slaked binders, water-repellent agent and special additives to improve the workability and grip at a ratio of 1.4 kg/m² (GR 100), 2.5 kg/m² (GR 200) and 3.5 kg/m² (GR 300).

Technical data according to UNI EN 998-1

| | |
|--|--|
| Specific weight | 1200 kg/m ³ determined in free fall |
| Max. diameter | 1 mm (GR 100) 1,5 mm (GR 200) 2,5 mm (GR 300) |
| Consumption | 1,4 kg/m ² (GR 100) 2,5 kg/m ² (GR 200) 3,5 kg/m ² (GR 300) |
| Water in the mix | approx. 28% by weight |
| Resistance to compression (CS II category) | 2,5 N/mm ² |
| Resistance to flexion | 1,2 N/mm ² |
| Permeability to water vapors μ | 8 |
| Water absorption | W2 |
| Adhesion to brick | 0,8 N/mm ² |
| Fracture type | A |
| Resistance to fire | A1 class |

Disclaimers

Do not mix GR 100-200-300 with other substances. Avoid strong temperature changes during the hardening phase; the product must be protected from frost and rapid drying. Do not use GR 100-200-300 when temperatures are below +5°C or above +30°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



binders

In the production of binders, a particular attention has been given to lime-derived products, like the grassello, calcium oxide, hydrated lime and micro-lime. The latter, in particular, is produced by selecting the raw material and subjecting it to a production process that allows for the obtaining of a micronized calcium hydrate (calcium flower) of high purity, with a particle size smaller than 20 microns.



binders

CALCE IDRATA

Superventilated hydrated lime



Product description

CALCE IDRATA is produced by extinguishing the calcium oxide, obtained through cooking in vertical furnaces, by a high purity limestone ($\text{CaCO}_3 > 98\%$).

Supply and Storage

CALCE IDRATA is supplied in bags on stretch pallets or in bulk, in tank trucks. Store in a cool, dry and non ventilated place. Keep packaging intact.

Quality & Service

A modern automated production facility ensures a high productivity and a constant control of all production processes. The quality is also guaranteed by daily control in the laboratory. Skilled technical staff is available to provide assistance on construction site and may provide any useful advice for each particular use.

Fields of use

The use of CALCE IDRATA ranges from the chemical industry to the construction field, from the tanning industry to water purification. CALCE IDRATA may also be used for the consolidation of road beds, airports and shipyards. For particular uses, see the technical details of Micro-calce.

Technical data according to UNI EN 459-1

| | |
|-------------------------|-------------------------------------|
| Classification | CL 80-S |
| Title | $\text{CaO} + \text{MgO} \geq 80\%$ |
| Specific weight in heap | $< 500 \text{ kg/m}^3$ |
| Humidity | $\leq 0,1\%$ |

Disclaimers

Do not use product as a food additive because it does not comply with the requirements of D.M. No 356/1997. Keep away from humidity.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



binders

MICROCALCE

Micronised calcium hydrate of high purity for special uses (lime flower)



Product description

MICROCALCE is produced by extinguishing the high purity calcium oxide and the subsequent treatment of micronization and classification.

Supply and Storage

MICROCALCE is supplied in bags on stretch pallets or in bulk trucks. Store in a cool, dry and non ventilated place. Keep packaging intact.

Quality and Service

A modern automated production plant ensures high productivity and a constant control over all processing stages. The quality is guaranteed by daily laboratory checking. Skilled technical staff is available to provide on-site assistance and provide any useful advice for the use.

Fields of use

The use of MICROCALCE ranges from the chemical industry to construction, from the tanning industry to all areas of ecology and the uses which require a high degree of purity and finesse. Thanks to its high specific surface, it finds particular use in fumes and acids processing systems, in thermal incinerators, in power plants and in the ceramics and glass industry.

Technical data according to UNI EN 459-1 Standard

| | |
|----------------------|---|
| Classification | CL 90-S |
| Title | CaO + MgO \geq 90% |
| Title | CO ₂ < 4% |
| Title | S < 0,2% |
| Specific heap weight | < 450 kg/m ³ determined in free fall |
| Humidity | \leq 0,1% |

Disclaimers

Do not use product as a food additive because it does not comply with the requirements of D.M. No 356/1997. Keep away from humidity.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Formad Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



binders

SCAGLIOLA

Gypsum-based powder binder



Product description

Powder binder, based on emidrated gypsum with added curing regulators.

Supply and Storage

SCAGLIOLA is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Quality and Service

The balanced and constant composition is ensured by a production plant with automatic dosage and it undergoes daily laboratory checks. Skilled technical staff is available to provide on-site assistance and provide any useful advice for the use.

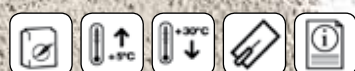
Fields of use

SCAGLIOLA is used to obtain interior plasters with smooth, mirror-like, white surface or for finishing rough plasters, whether gypsum-based or based on hydraulic binder.

For application on hydraulic binder-based plasters, it is recommended that these are well seasoned. Prepare the dough by adding powder to water, until the point of rejection and, after having allowed the product to rest, only mix a quantity sufficient for immediate use. The surfaces must be free from dust, oils and fats.

Disclaimers

Keep away from humidity. Do not mix SCAGLIOLA with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. We do not recommend using SCAGLIOLA when temperatures are below +5°C or above +30°C.



binders

GRASSELLO DI CALCE

Obtained by extinguishing quicklime in water



Product description

GRASSELLO DI CALCE is obtained by extinguishing quicklime in water and appropriate aging, without any added chemical additives.

Supply and Storage

GRASSELLO DI CALCE is supplied in polyethylene bags in iron containers or wooden boxes. For particular uses, it may be supplied in bulk, in trucks or in special silos. Keep from freezing. Keep packaging intact.

Fields of use

GRASSELLO DI CALCE may be used as a smooth interior finish on new fine plasters, by using the “fresh on fresh” technology (within 24 hours). It is also

used as aerial binder for the preparation of traditional mortars and it is used, as such or diluted, in ecology as acidity corrector and as a filtering adjuvant.

Technical data according to UNI EN 459-1 Standard

| | |
|----------------|-----------------|
| Classification | CL 80-S |
| Title | CaO + MgO ≥ 80% |

Disclaimers

Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying (wind or direct exposure to sunlight). We do not recommend using GRASSELLO DI CALCE when temperatures are below +5°C or above +30°C. GRASSELLO DI CALCE should not be covered with coatings or little breathable paints which may possibly prevent carbonatation and the evaporation of residual moisture of the substrate, thus giving birth to cracks or peeling of the finish itself. Keep away from humidity. Should be applied on finishings which were not installed with more than 48 hours in advance, in order to avoid a quick dehydration of the GRASSELLO DI CALCE itself.



The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

binders

PLASTO GI

Plastic binder for construction



Product description

Binder for construction, obtained from ground Portland clinker, natural limestone and gypsum; with average compressive strength at 28 days, on plastic mortar, superior to 4 N/mm².

Supply and Storage

PLASTO GI is supplied in bags on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Quality and Service

The balanced and constant composition is ensured by an production plant with automatic dosage and daily controls in the laboratory. Skilled technical staff is available to provide on-site assistance and provide any useful advice for various applications.

Disclaimers

Avoid humid environments.

Fields of use

Mortars and plasters in general.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



binders

CEMENTO

Type II/A-LL 32.5 R
Type II/B-LL 32.5 R



Product description

Hydraulic binder for construction, obtained from ground Portland clinker, natural limestone and gypsum; with average compressive strength at 28 days, on plastic mortar, superior to 32.5 N/mm².

Supply and Storage

The CEMENTO type II/B-LL 32.5 R is supplied in bags on stretch pallets or in bulk. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stamped on the bag.

Quality and Service

The balanced and constant composition is ensured by an production plant with automatic dosage and daily controls in the laboratory. Skilled technical staff is available to provide on-site assistance and provide any useful advice for various applications. Controlled at point of origin, according to the UNI EN 197/1 Standard.

Fields of use

Concrete, even prefabricated, simple or reinforced, with good initial resistance, in not overly aggressive environments. Concrete for industrial flooring and road surfaces or for certain products (self-blocking, cords and blocks).

Technical data according to UNI EN 197/1 Standard

| | Type II/A-LL 32.5 bulk | Type II/B-LL 32.5 v bag |
|--------------------------------------|--------------------------|--------------------------|
| Sulfates (such as SO ₃) | ≤ 3,5% | ≤ 3,5% |
| Chlorine | ≤ 0,10% | ≤ 0,10% |
| Time of curing start | ≥ 75 min. | ≥ 75 min. |
| Resistance to compression at 2 days | ≥ 10 N/mm ² | ≥ 10 N/mm ² |
| Resistance to compression at 28 days | ≥ 32,5 N/mm ² | ≥ 32,5 N/mm ² |

Disclaimers

Avoid humid environments.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



binders

CEMENTO

Type II/A-LL 42.5 N
Type II/A-LL 42.5 R



Product description

Hydraulic binder obtained from ground Portland clinker, natural limestone and gypsum; with average compressive strength at 28 days, on plastic mortar, superior to 42.5 N/mm².

Supply and Storage

The CEMENTO type II/B-LL 42.5 R is supplied in bags on stretch pallets or in bulk. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stamped on the bag.

Quality and Service

The balanced and constant composition is ensured by an production plant with automatic dosage and daily controls in the laboratory. Skilled technical staff is available to provide on-site assistance and provide any useful advice for various applications. Controlled at point of origin, according to the UNI EN 197/1 Standard.

Fields of use

The CEMENTO type II/B-LL 42.5 R may be for the production of oncrete, even prefabricated, simple or reinforced, with good initial resistance, in not overly aggressive environments. Concrete for industrial flooring and road surfaces or for certain products (self-blocking, cords and blocks).

Technical data according to UNI EN 197/1 Standard

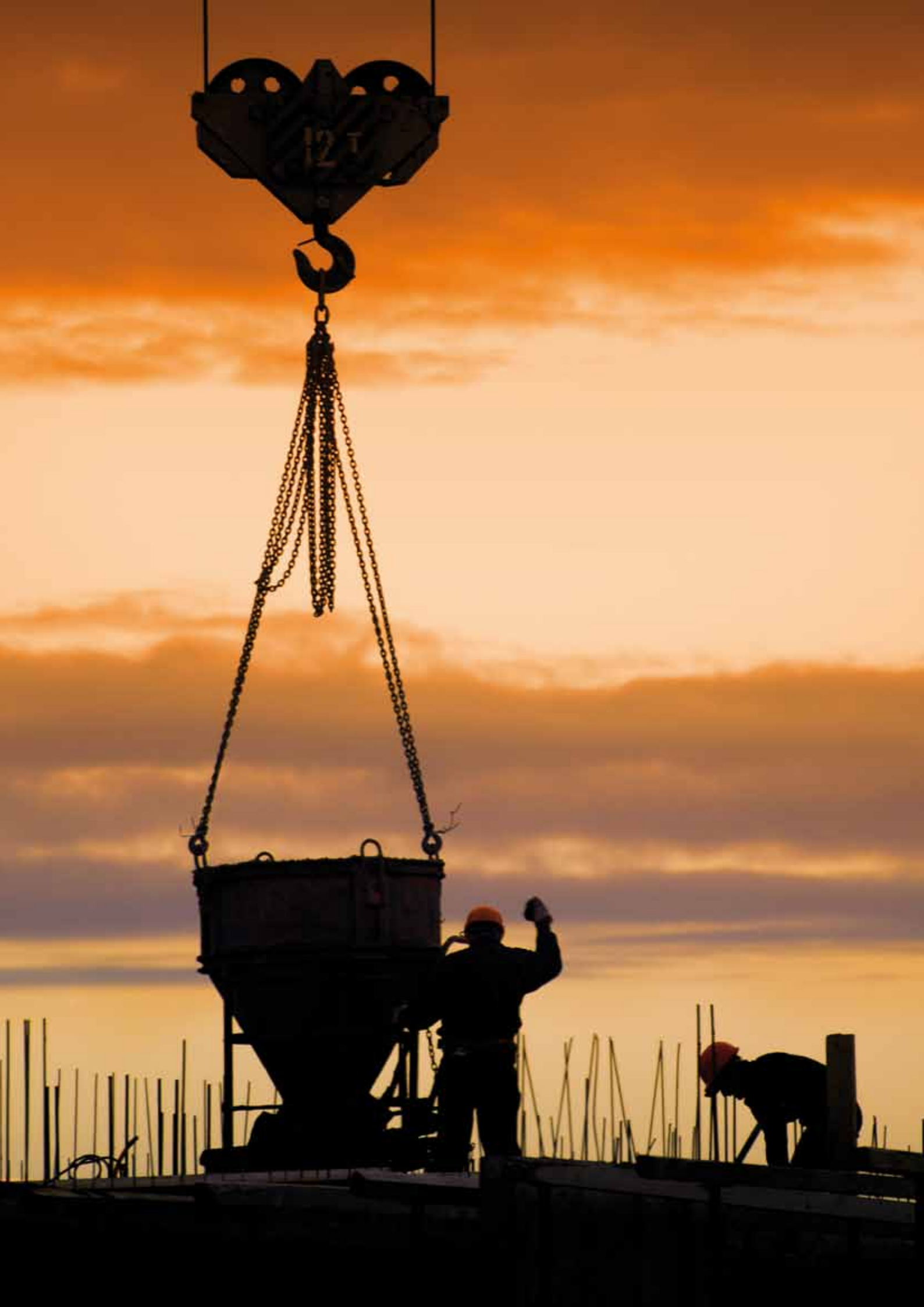
| | Type II/A-LL 42.5 N | Type II/A-LL 42.5 R |
|--------------------------------------|--------------------------|--------------------------|
| Sulfates (such as SO ₃) | ≤ 3,5% | ≤ 4% |
| Chlorine | ≤ 0,10% | ≤ 0,10% |
| Time of curing start | ≥ 60 min. | ≥ 60 min. |
| Resistance to compression at 2 days | ≥ 10 N/mm ² | ≥ 20 N/mm ² |
| Resistance to compression at 28 days | ≥ 42,5 N/mm ² | ≥ 42,5 N/mm ² |

Disclaimers

Avoid humid environments.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.





galileo

The Galileo line of mortars for concrete restoration takes into account the three basic parameters required to achieve a successful intervention: the class of exposition (depending on the type of aggression which the building is subject to), the application technology (spray/trowel or casting) and the adherence of the original concrete.

All four versions of mortar proposed by the Galileo line have the specific resistance characteristics of the environmental categories of the UNI EN 206-1 standard and are all available either as spray/trowel and for casting, in order to allow the application with the most appropriate technology.



TIXO XC

Thixotropic mortar with offset withdrawal for the structural restoration of elements in reinforced concrete



Product description

GALILEO TIXO XC is a premixed mortar, cementous, mono-component, with offset withdrawal, reinforced with polyacrylonitrile fibers designed to resist the action of aggressive agents, typical of the XC exposure class, according to the UNI EN 206 standard.

Supply and Storage

Packaging: 25 kg. bag (60 bags pallet - 1.500 kg.)

Consumption: approx. 18 kg./sqm. per cm. thickness. GALILEO TIXO XC is available in special paper and high-density and thickness polyethylene bags that allow for the product to be stored in a dry place for at least 8 months, without loss of performance characteristics and in particular those related to expansive capacity.

Surface Preparation and Application

Once the degree of concrete deterioration is identified, remove the damaged concrete through high pressure water-blasting or by mechanical means, to be made with pneumatic hammers. The surface roughening is thus a necessary condition to combat the expansion of the material, the mechanism through which the withdrawal compensation is performed. Incorrect preparation of the contact surface could reduce the adhesion characteristics of the product or even promote abnormal behavior.

In the presence of outcropping iron reinforcements, it is necessary to clean them of rust by sand-blasting in order to eliminate the degraded and peeled parts of material which might still be present. Once brought to white, cover the reinforcements with a layer of GALILEO PASSIVANTE, specific slurry for reconditioning iron reinforcements.

For interventions which require a thickness of GALILEO TIXO XC less than 2 cm., it is not necessary to apply additional meshes. If the intervention requires a higher thickness (up to 5 cm.), it is necessary to apply an arc-welded reinforcement (Ø5 and 10x10 mesh) needed to ensure the contrast. In particular, the mesh should be firmly fixed to the support at a distance of 1 cm. (by means of spacers), so that the sprayed material may fit between the mesh and the concrete surface. As last preparation, it is necessary to saturate the concrete with water, checking for the presence, and remove, if any, of areas of stagnation. Humidifying the support is crucial in ensuring a good ad-

hesion between mortar and concrete.

The mixing of GALILEO TIXO XC must be done in mixer or blender machine sprinker. It is preferable not to use, for the mixing machines with continuous cycle. For limited interventions it is possible to mix by using a power drill, avoiding the excessive incorporation of air. Always pour the water first (4/5 of total) and then the powder. After a first blending, add the remaining water quantity and mix to obtain a homogeneous mixture, free of lumps with a spread of about 165 mm. GALILEO TIXO XC should be mixed with water at a rate of approx. 17.5 liters per 100 kg. of powder (approx. 4.3 liters per 25 kg. bag).

GALILEO TIXO XC can be applied by hand trowel or by spraying with a plastering machine. In any case, the surface should be strongly roughening, clean and saturated with water. If there is an arc-welded reinforcement mesh, the first layer should be at least 3-4 cm. thick, to ensure an adequate coverage (2 cm) of the reinforcement. Once the product has reached the condition known as "out of touch", finish with a float. A proper finishing can effectively counteract the appearance of any superficial cracks.

Fields of use

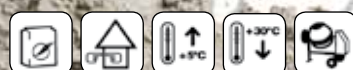
GALILEO TIXO XC is designed for interventions of structural restoration of large buildings and/or items in deteriorated reinforced concrete. It can be applied with a plastering machine (type M5 or Maltech Turbosol) or, in limited interventions, with a trowel.

Technical data

| | |
|---|--|
| Water in the mix | 17,5 % |
| Spread (in mm.) | 165 ± 5 |
| Particle size | 0 - 3 mm |
| Resistance to compression UNI EN 196/1 | 1 day: > 10 MPa / 7 days: > 35 MPa / 28 days: > 50 MPa |
| Resistance to flexion UNI EN 196/1 | 1 day: > 3 MPa / 7 days: > 5 MPa / 28 days: > 9 MPa |
| Water impermeability | < 0,5 kg*m ² *h ^{-0,5} |
| Elastic module UNI 6556 (at 28 days) | asi 27.000 ± 3000 MPa |
| Adherence to concrete UNI EN 1542 | 2 MPa |
| Contrasted expansion (UNI 8147) | 1g > 0,05% |
| Contrasted expansion at surface (UNI 8147 modif.) | 1g > 0,03% |
| CO ₂ penetration by phenolphthaleine coloration method | Non measurable |

Disclaimers

GALILEO TIXO XC should be applied at temperatures between 5°C and 30°C; in case of low temperatures (5°C to 10°C), it is recommended to mix the material with warm water (30°C to 40°C). Conversely, if ambient temperatures are high, it is recommended to mix the material with cold water. In the case of low temperatures, mechanical performance may develop somewhat slower.



GROUT XC

Plaster mortar with offset withdrawal for the structural restoration of elements in reinforced concrete



Product description

GALILEO GROUT XC is a premixed mortar, adhesive, cementous, mono-component, with offset withdrawal, reinforced with polyacrylonitrile fibers designed to resist the action of aggressive agents, typical of the XC exposure class, according to the UNI EN 206 standard.

Supply and Storage

Packaging: 25 kg. bag (60 bags pallet - 1.500 kg.)

Consumption: approx. 18.5 kg./sqm. per cm. thickness. GALILEO GROUT XC is available in special paper and high-density and thickness polyethylene bags that allow for the product to be stored in a dry place for at least 8 months.

Surface Preparation and Application

Once the degree of concrete deterioration is identified, remove the damaged concrete through high pressure water-blasting or by mechanical means, to be made with pneumatic hammers. The surface roughening is thus a necessary condition to combat the expansion of the material, the mechanism through which the withdrawal compensation is performed. Incorrect preparation of the contact surface could reduce the adhesion characteristics of the product or even promote abnormal behavior.

In the presence of outcropping iron reinforcements, it is necessary to clean them of rust by sand-blasting in order to eliminate the degraded and peeled parts of material which might still be present. Once brought to white, cover the reinforcements with a layer of GALILEO PASSIVANTE, specific slurry for reconditioning iron reinforcements. For interventions which require a thickness of GALILEO GROUT XC less than 2 cm., it is not necessary to apply additional meshes. If the intervention requires a higher thickness (up to 5 cm.), it is necessary to apply an arc-welded reinforcement (Ø5 and 10x10 mesh) needed to ensure the contrast. In particular, the mesh should be firmly fixed to the support at a distance of 1 cm. (by means of spacers), so that the sprayed material may fit between the mesh and the concrete surface.

As last preparation, it is necessary to saturate the concrete with water, checking for the presence, and remove, if any, of

areas of stagnation. Humidifying the support is crucial in ensuring a good adhesion between mortar and concrete.

The mixing of GALILEO GROUT XC must be done in mixer or blender machine sprayer. It is preferable not to use, for the mixing machines with continuous cycle. For limited interventions it is possible to mix by using a power drill, avoiding the excessive incorporation of air.

Always pour the water first (4/5 of total) and then the powder. After a first blending, add the remaining water quantity and mix to obtain a homogeneous mixture, free of lumps with a spread > 200 mm. on the shaking table.

GALILEO GROUT XC should be mixed with water at a rate of approx. 16 liters per 100 kg. of powder (approx. 4 liters per 25 kg. bag). GALILEO GROUT XC can be applied by mold casting. Because it is a fluid product, the molds must be sealed, waterproofed (so that they do not steal water from the product) and able to contain the expansion of the material, especially in the case of jets with high vertical development. For applications thicker than 5 cm., inerts can be added (type pea gravel 4-8) to an extent of 30% of the total weight of the conglomerate.

Fields of use

GALILEO GROUT XC is designed for interventions of structural restoration of large buildings and/or items in deteriorated reinforced concrete.

Technical data

| | |
|---|--|
| Water in the mix | 16 % |
| Spread (in mm.) | > 200 |
| Particle size | 0 - 3 mm |
| Resistance to compression UNI EN 196/1 | 1 day: > 20 MPa / 7 days: > 40 MPa / 28 days: > 60 MPa |
| Resistance to flexion UNI EN 196/1 | 1 day: > 4 MPa / 7 days: > 8 MPa / 28 days: > 10 MPa |
| Water impermeability | < 0,5 kg·m ² ·h ^{-0.5} |
| Elastic module UNI 6556 (at 28 days) | approx. 27.000 ± 3000 MPa |
| Adherence to concrete UNI EN 1542 | 2 MPa |
| Contrasted expansion (UNI 8147) | 1 g > 0,05% |
| Contrasted expansion at surface (UNI 8147 modif.) | 1 g > 0,04% |
| CO ₂ penetration by phenolphthaleine coloration method | Non measurable |

Disclaimers

GALILEO GROUT XC should be applied at temperatures between 5°C and 30°C; in case of low temperatures (5°C to 10°C), it is recommended to mix the material with warm water (30°C to 40°C). Conversely, if ambient temperatures are high, it is recommended to mix the material with cold water. In the case of low temperatures, mechanical performance may develop somewhat slower.



TIXO XS

Thixotropic mortar with offset withdrawal for the structural restoration of elements in reinforced concrete



Product description

GALILEO TIXO XS is a premixed mortar, cementous, mono-component, with offset withdrawal, reinforced with polyacrylonitrile fibers, designed to resist the action of aggressive agents (chlorides of marine origin), typical of the XS exposure class, according to the UNI EN 206 standard.

Supply and Storage

Packaging: 25 kg. bag (60 bags pallet - 1.500 kg.)

Consumption: approx. 18.5 kg./sqm. per cm. thickness. GALILEO TIXO XS is available in special paper and high-density and thickness polyethylene bags that allow for the product to be stored in a dry place for at least 8 months, without loss of performance characteristics and in particular those related to expansive capacity.

Surface Preparation and Application

Once the degree of concrete deterioration is identified, remove the damaged concrete through high pressure water-blasting or by mechanical means, to be made with pneumatic hammers. The surface roughening is thus a necessary condition to combat the expansion of the material, the mechanism through which the withdrawal compensation is performed. Incorrect preparation of the contact surface could reduce the adhesion characteristics of the product or even promote abnormal behavior. In the presence of outcropping iron reinforcements, it is necessary to clean them of rust by sand-blasting in order to eliminate the degraded and peeled parts of material which might still be present. Once brought to white, cover the reinforcements with a layer of GALILEO PASSIVANTE, specific slurry for reconditioning iron reinforcements. For interventions which require a thickness of GALILEO TIXO XS less than 2 cm., it is not necessary to apply additional meshes. If the intervention requires a higher thickness (up to 5 cm.), it is necessary to apply an arc-welded reinforcement (Ø5 and 10x10 mesh) needed to ensure the contrast. In particular, the mesh should be firmly fixed to the support at a distance of 1 cm. (by means of spacers), so that the sprayed material may fit between the mesh and the concrete surface.

As last preparation, it is necessary to saturate the concrete with water, checking for the presence, and remove, if any, of areas of stagnation. Humidifying the support is crucial in ensuring a good

adhesion between mortar and concrete. The mixing of GALILEO TIXO XS must be done in mixer or blender machine sprinker. It is preferable not to use, for the mixing machines with continuous cycle. For limited interventions it is possible to mix by using a power drill, avoiding the excessive incorporation of air. Always pour the water first (4/5 of total) and then the powder. After a first blending, add the remaining water quantity and mix to obtain a homogeneous mixture, free of lumps with a spread of about 160 mm. GALILEO TIXO XS should be mixed with water at a rate of approx. 17.5 liters per 100 kg. of powder (approx. 4.3 liters per 25 kg. bag). GALILEO TIXO XS can be applied by hand trowel or by spraying with a plastering machine. In any case, the surface should be strongly roughening, clean and saturated with water. If there is an arc-welded reinforcement mesh, the first layer should be at least 3-4 cm. thick, to ensure an adequate coverage (2 cm) of the reinforcement. Once the product has reached the condition known as "out of touch", finish with a float. A proper finishing can effectively counteract the appearance of any superficial cracks.

Fields of use

GALILEO TIXO XS is designed for interventions of structural restoration of large buildings and/or items in deteriorated reinforced concrete. It can be applied with a plastering machine (type M5 or Maltech Turbosol) or, in limited interventions, with a trowel.

Technical data

| | |
|---|--|
| Water in the mix | 17,5 % |
| Spread (in mm.) | 165 ± 5 |
| Particle size | 0 - 3 mm |
| Resistance to compression UNI EN 196/1 | 1 day: > 10 MPa / 7 days: > 35 MPa / 28 days: > 50 MPa |
| Resistance to flexion UNI EN 196/1 | 1 day: > 3 MPa / 7 days: > 5 MPa / 28 days: > 9 MPa |
| Water impermeability | < 0,5 kg·m ² ·h ^{-0.5} |
| Elastic module UNI 6556 (at 28 days) | ca. 27.000 ± 3.000 MPa |
| Adherence to concrete UNI EN 1542 | 2 MPa |
| Contrasted expansion (UNI 8147) | 1 g > 0,05% |
| Contrasted expansion at surface (UNI 8147 modif.) | 1 g > 0,03% |
| CO ₂ penetration by phenolphthaleine coloration method | Non measurable |

Disclaimers

GALILEO TIXO XS should be applied at temperatures between 5°C and 30°C; in case of low temperatures (5°C to 10°C), it is recommended to mix the material with warm water (30°C to 40°C). Conversely, if ambient temperatures are high, it is recommended to mix the material with cold water. In the case of low temperatures, mechanical performance may develop somewhat slower.



GROUT XS

Plaster mortar with offset withdrawal for the structural restoration of elements in reinforced concrete



Product description

GALILEO GROUT XS is a premixed mortar, adhesive, cementous, mono-component, with offset withdrawal, reinforced with polyacrylonitrile fibers designed to resist the action of aggressive agents, typical of the XS exposure class, according to the UNI EN 206 standard.

Supply and Storage

Packaging: 25 kg. bag (60 bags pallet - 1.500 kg.)

Consumption: approx. 18.5 kg./sqm. per cm. thickness. GALILEO GROUT XS is available in special paper and high-density and thickness polyethylene bags that allow for the product to be stored in a dry place for at least 8 months.

Surface Preparation and Application

Once the degree of concrete deterioration is identified, remove the damaged concrete through high pressure water-blasting or by mechanical means, to be made with pneumatic hammers. The surface roughening is thus a necessary condition to combat the expansion of the material, the mechanism through which the withdrawal compensation is performed. Incorrect preparation of the contact surface could reduce the adhesion characteristics of the product or even promote abnormal behavior.

In the presence of outcropping iron reinforcements, it is necessary to clean them of rust by sand-blasting in order to eliminate the degraded and peeled parts of material which might still be present. Once brought to white, cover the reinforcements with a layer of GALILEO PASSIVANTE, specific slurry for reconditioning iron reinforcements.

For interventions which require a thickness of GALILEO GROUT XS less than 2 cm., it is not necessary to apply additional meshes. If the intervention requires a higher thickness (up to 5 cm.), it is necessary to apply an arc-welded reinforcement (Ø5 and 10x10 mesh) needed to ensure the contrast. In particular, the mesh should be firmly fixed to the support at a distance of 1 cm. (by means of spacers), so that the sprayed material may fit between the mesh and the concrete surface.

As last preparation, it is necessary to saturate the concrete with water, checking for the presence, and remove, if any, of

areas of stagnation. Humidifying the support is crucial in ensuring a good adhesion between mortar and concrete.

The mixing of GALILEO GROUT XS must be done in mixer or blender machine sprinkler. It is preferable not to use, for the mixing machines with continuous cycle. For limited interventions it is possible to mix by using a power drill, avoiding the excessive incorporation of air.

Always pour the water first (4/5 of total) and then the powder. After a first blending, add the remaining water quantity and mix to obtain a homogeneous mixture, free of lumps with a spread > 200 mm. on the shaking table.

GALILEO GROUT XS should be mixed with water at a rate of approx. 16 liters per 100 kg. of powder (approx. 4 liters per 25 kg. bag).

GALILEO GROUT XS can be applied by mold casting. Because it is a fluid product, the molds must be sealed, waterproofed (so that they do not steal water from the product) and able to contain the expansion of the material, especially in the case of jets with high vertical development. For applications thicker than 5 cm., inerts can be added (type pea gravel 4-8) to an extent of 30% of the total weight of the conglomerate.

Fields of use

GALILEO GROUT XS is designed for interventions of structural restoration of large buildings and/or items in deteriorated reinforced concrete.

Technical data

| | |
|---|--|
| Water in the mix | 16 % |
| Spread (in mm.) | > 200 |
| Particle size | 0 - 3 mm |
| Resistance to compression UNI EN 196/1 | 1 day: > 20 MPa / 7 days: > 40 MPa / 28 days: > 60 MPa |
| Resistance to flexion UNI EN 196/1 | 1 day: > 4 MPa / 7 days: > 8 MPa / 28 days: > 10 MPa |
| Water impermeability | < 0,5 kg*m ² *h ^{-0,5} |
| Elastic module UNI 6556 (at 28 days) | approx. 27.000 ± 3000 MPa |
| Adherence to concrete UNI EN 1542 | 2 MPa |
| Contrasted expansion (UNI 8147) | 1 g > 0,05% |
| Contrasted expansion at surface (UNI 8147 modif.) | 1 g > 0,04% |
| CO ₂ penetration by phenolphthaleine coloration method | Non measurable |

Disclaimers

GALILEO GROUT XS should be applied at temperatures between 5°C and 30°C; in case of low temperatures (5°C to 10°C), it is recommended to mix the material with warm water (30°C to 40°C). Conversely, if ambient temperatures are high, it is recommended to mix the material with cold water. In the case of low temperatures, mechanical performance may develop somewhat slower.



TIXO XF

Thixotropic mortar with offset withdrawal for the structural restoration of elements in reinforced concrete



Product description

GALILEO TIXO XF is a premixed mortar, cementous, mono-component, with offset withdrawal, reinforced with polyacrylonitrile fibers designed to resist the action of aggressive agents, typical of the XF exposure class, according to the UNI EN 206 standard.

Supply and Storage

Packaging: 25 kg. bag (60 bags pallet - 1.500 kg.)

Consumption: approx. 17.5 kg./sqm. per cm. thickness. GALILEO TIXO XF is available in special paper and high-density and thickness polyethylene bags that allow for the product to be stored in a dry place for at least 8 months, without loss of performance characteristics and in particular those related to expansive capacity.

Surface Preparation and Application

Once the degree of concrete deterioration is identified, remove the damaged concrete through high pressure water-blasting or by mechanical means, to be made with pneumatic hammers. The surface roughening is thus a necessary condition to combat the expansion of the material, the mechanism through which the withdrawal compensation is performed. Incorrect preparation of the contact surface could reduce the adhesion characteristics of the product or even promote abnormal behavior. In the presence of outcropping iron reinforcements, it is necessary to clean them of rust by sand-blasting in order to eliminate the degraded and peeled parts of material which might still be present. Once brought to white, cover the reinforcements with a layer of GALILEO PASSIVANTE, specific slurry for reconditioning iron reinforcements. For interventions which require a thickness of GALILEO TIXO XF less than 2 cm., it is not necessary to apply additional meshes. If the intervention requires a higher thickness (up to 5 cm.), it is necessary to apply an arc-welded reinforcement (Ø5 and 10x10 mesh) needed to ensure the contrast. In particular, the mesh should be firmly fixed to the support at a distance of 1 cm. (by means of spacers), so that the sprayed material may fit between the mesh and the concrete surface.

As last preparation, it is necessary to saturate the concrete with water, checking for the presence, and remove, if any, of areas of stagnation. Humidifying the

support is crucial in ensuring a good adhesion between mortar and concrete. The mixing of GALILEO TIXO XF must be done in mixer or blender machine sprinker. It is preferable not to use, for the mixing machines with continuous cycle. For limited interventions it is possible to mix by using a power drill, avoiding the excessive incorporation of air. Always pour the water first (4/5 of total) and then the powder. After a first blending, add the remaining water quantity and mix to obtain a homogeneous mixture, free of lumps with a spread of about 160 mm. GALILEO TIXO XF should be mixed with water at a rate of approx. 17.5 liters per 100 kg. of powder (approx. 4.3 liters per 25 kg. bag).

GALILEO TIXO XF can be applied by hand trowel or by spraying with a plastering machine. In any case, the surface should be strongly roughening, clean and saturated with water.

If there is an arc-welded reinforcement mesh, the first layer should be at least 3-4 cm. thick, to ensure an adequate coverage (2 cm) of the reinforcement. Once the product has reached the condition known as "out of touch", finish with a float. A proper finishing can effectively counteract the appearance of any superficial cracks.

Fields of use

GALILEO TIXO XF is designed for interventions of structural restoration of large buildings and/or items in deteriorated reinforced concrete. It can be applied with a plastering machine (type M5 or Maltech Turbosol) or, in limited interventions, with a trowel.

Technical data

| | |
|---|--|
| Water in the mix | 17,5 % |
| Spread (in mm.) | 165 ± 5 |
| Particle size | 0 - 3 mm |
| Resistance to compression UNI EN 196/1 | 1 day: > 10 MPa / 7 days: > 35 MPa / 28 days: > 50 MPa |
| Resistance to flexion UNI EN 196/1 | 1 day: > 3 MPa / 7 days: > 5 MPa / 28 days: > 9 MPa |
| Water impermeability | < 0,5 kg*m ² *h ^{-0,5} |
| Elastic module UNI 6556 (at 28 days) | ca. 27.000 ± 3000 MPa |
| Adherence to concrete UNI EN 1542 | 2 MPa |
| Contrasted expansion (UNI 8147) | 1 g > 0,04% |
| Contrasted expansion at surface (UNI 8147 modif.) | 1 g > 0,03% |
| CO ₂ penetration by phenolphthaleine coloration method | Non measurable |

Disclaimers

GALILEO TIXO XF should be applied at temperatures between 5°C and 30°C; in case of low temperatures (5°C to 10°C), it is recommended to mix the material with warm water (30°C to 40°C). Conversely, if ambient temperatures are high, it is recommended to mix the material with cold water. In the case of low temperatures, mechanical performance may develop somewhat slower.



GROUT XF

Plaster mortar with offset withdrawal for the structural restoration of elements in reinforced concrete



Product description

GALILEO GROUT XF is a premixed mortar, adhesive, cementous, mono-component, with offset withdrawal, reinforced with polyacrylonitrile fibers designed to resist the action of aggressive agents, typical of the XF exposure class, according to the UNI EN 206 standard.

Supply and Storage

Packaging: 25 kg. bag (60 bags pallet - 1.500 kg.)

Consumption: approx. 18 kg./sqm. per cm. thickness. GALILEO GROUT XF is available in special paper and high-density and thickness polyethylene bags that allow for the product to be stored in a dry place for at least 8 months.

Surface Preparation and Application

Once the degree of concrete deterioration is identified, remove the damaged concrete through high pressure water-blasting or by mechanical means, to be made with pneumatic hammers. The surface roughening is thus a necessary condition to combat the expansion of the material, the mechanism through which the withdrawal compensation is performed. Incorrect preparation of the contact surface could reduce the adhesion characteristics of the product or even promote abnormal behavior.

In the presence of outcropping iron reinforcements, it is necessary to clean them of rust by sand-blasting in order to eliminate the degraded and peeled parts of material which might still be present. Once brought to white, cover the reinforcements with a layer of GALILEO PASSIVANTE, specific slurry for reconditioning iron reinforcements.

For interventions which require a thickness of GALILEO GROUT XF less than 2 cm., it is not necessary to apply additional meshes. If the intervention requires a higher thickness (up to 5 cm.), it is necessary to apply an arc-welded reinforcement (Ø5 and 10x10 mesh) needed to ensure the contrast. In particular, the mesh should be firmly fixed to the support at a distance of 1 cm. (by means of spacers), so that the sprayed material may fit between the mesh and the concrete surface.

As last preparation, it is necessary to saturate the concrete with water, checking

for the presence, and remove, if any, of areas of stagnation. Humidifying the support is crucial in ensuring a good adhesion between mortar and concrete.

The mixing of GALILEO GROUT XF must be done in mixer or blender machine sprinkler. It is preferable not to use, for the mixing machines with continuous cycle. For limited interventions it is possible to mix by using a power drill, avoiding the excessive incorporation of air.

Always pour the water first (4/5 of total) and then the powder. After a first blending, add the remaining water quantity and mix to obtain a homogeneous mixture, free of lumps with a spread > 200 mm. on the shaking table. GALILEO GROUT XF should be mixed with water at a rate of approx. 16 liters per 100 kg. of powder (approx. 4 liters per 25 kg. bag).

GALILEO GROUT XF can be applied by mold casting. Because it is a fluid product, the molds must be sealed, waterproofed (so that they do not steal water from the product) and able to contain the expansion of the material, especially in the case of jets with high vertical development.

For applications thicker than 5 cm., inerts can be added (type pea gravel 4-8) to an extent of 30% of the total weight of the conglomerate.

Fields of use

GALILEO GROUT XF is designed for interventions of structural restoration of large buildings and/or items in deteriorated reinforced concrete.

Technical data

| | |
|---|--|
| Water in the mix | 16 % |
| Spread (in mm.) | > 200 |
| Particle size | 0 - 3 mm |
| Resistance to compression UNI EN 196/1 | 1 day: > 20 MPa / 7 days: > 40 MPa / 28 days: > 60 MPa |
| Resistance to flexion UNI EN 196/1 | 1 day: > 4 MPa / 7 days: > 8 MPa / 28 days: > 10 MPa |
| Water impermeability | < 0,5 kg*m ² *h ^{-0.5} |
| Elastic module UNI 6556 (at 28 days) | approx. 27.000 ± 3000 MPa |
| Adherence to concrete UNI EN 1542 | 2 MPa |
| Contrasted expansion (UNI 8147) | 1 g > 0,05% |
| Contrasted expansion at surface (UNI 8147 modif.) | 1 g > 0,04% |
| CO ₂ penetration by phenolphthaleine coloration method | Non measurable |

Disclaimers

GALILEO GROUT XF should be applied at temperatures between 5°C and 30°C; in case of low temperatures (5°C to 10°C), it is recommended to mix the material with warm water (30°C to 40°C). Conversely, if ambient temperatures are high, it is recommended to mix the material with cold water. In the case of low temperatures, mechanical performance may develop somewhat slower.



TIXO XA

Thixotropic mortar with offset withdrawal for the structural restoration of elements in reinforced concrete



Product description

GALILEO TIXO XA is a premixed mortar, cementous, mono-component, with offset withdrawal, reinforced with polyacrylonitrile fibers designed to resist the action of aggressive agents, typical of the XA exposure class, according to the UNI EN 206 standard.

Supply and Storage

Packaging: 25 kg. bag (60 bags pallet - 1.500 kg.)

Consumption: approx. 18 kg./sqm. per cm. thickness. GALILEO TIXO XA is available in special paper and high-density and thickness polyethylene bags that allow for the product to be stored in a dry place for at least 8 months, without loss of performance characteristics and in particular those related to expansive capacity. In the case of low temperatures, mechanical performance may develop somewhat slower.

Surface Preparation and Application

Once the degree of concrete deterioration is identified, remove the damaged concrete through high pressure water-blasting or by mechanical means, to be made with pneumatic hammers. The surface roughening is thus a necessary condition to combat the expansion of the material, the mechanism through which the withdrawal compensation is performed. Incorrect preparation of the contact surface could reduce the adhesion characteristics of the product or even promote abnormal behavior.

In the presence of outcropping iron reinforcements, it is necessary to clean them of rust by sand-blasting in order to eliminate the degraded and peeled parts of material which might still be present. Once brought to white, cover the reinforcements with a layer of GALILEO PASSIVANTE, specific slurry for reconditioning iron reinforcements.

For interventions which require a thickness of GALILEO TIXO XA less than 2 cm., it is not necessary to apply additional meshes. If the intervention requires a higher thickness (up to 5 cm.), it is necessary to apply an arc-welded reinforcement (Ø5 and 10x10 mesh) needed to ensure the contrast. In particular, the mesh should be firmly fixed to the support at a distance of 1 cm. (by means of spacers), so that the sprayed material may fit between the mesh and the concrete surface.

As last preparation, it is necessary to saturate the concrete with water, checking for the presence, and remove, if any, of areas of stagnation. Humidifying the sup-

port is crucial in ensuring a good adhesion between mortar and concrete.

The mixing of GALILEO TIXO XA must be done in mixer or blender machine sprinkler. It is preferable not to use, for the mixing machines with continuous cycle. For limited interventions it is possible to mix by using a power drill, avoiding the excessive incorporation of air. Always pour the water first (4/5 of total) and then the powder. After a first blending, add the remaining water quantity and mix to obtain a homogeneous mixture, free of lumps with a spread of about 165 mm. GALILEO TIXO XA should be mixed with water at a rate of approx. 17.5 liters per 100 kg. of powder (approx. 4.3 liters per 25 kg. bag). GALILEO TIXO XA can be applied by hand trowel or by spraying with a plastering machine. In any case, the surface should be strongly roughening, clean and saturated with water. If there is an arc-welded reinforcement mesh, the first layer should be at least 3-4 cm. thick, to ensure an adequate coverage (2 cm) of the reinforcement. Once the product has reached the condition known as "out of touch", finish with a float. A proper finishing can effectively counteract the appearance of any superficial cracks.

Fields of use

GALILEO TIXO XA is designed for interventions of structural restoration of large buildings and/or items in deteriorated reinforced concrete. It can be applied with a plastering machine (type M5 or Maltech Turbosol) or, in limited interventions, with a trowel.

Technical data

| | |
|---|--|
| Water in the mix | 17,5 % |
| Spread (in mm.) | 165 ± 5 |
| Particle size | 0 - 3 mm |
| Resistance to compression UNI EN 196/1 | 1 day: > 10 MPa / 7 days: > 35 MPa / 28 days: > 50 MPa |
| Resistance to flexion UNI EN 196/1 | 1 day: > 3 MPa / 7 days: > 5 MPa / 28 days: > 9 MPa |
| Water impermeability | < 0,5 kg*m ² *h ^{-0.5} |
| Elastic module UNI 6556 (at 28 days) | ca. 27.000 ± 3000 MPa |
| Adherence to concrete UNI EN 1542 | 2 MPa |
| Contrasted expansion (UNI 8147) | 1 g > 0,05% |
| Contrasted expansion at surface (UNI 8147 modif.) | 1 g > 0,03% |
| CO ₂ penetration by phenolphthaleine coloration method | Non measurable |

Disclaimers

GALILEO TIXO XA should be applied at temperatures between 5°C and 30°C; in case of low temperatures (5°C to 10°C), it is recommended to mix the material with warm water (30°C to 40°C). Conversely, if ambient temperatures are high, it is recommended to mix the material with cold water. In the case of low temperatures, mechanical performance may develop somewhat slower.



GROUT XA

Plaster mortar with offset withdrawal for the structural restoration of elements in reinforced concrete



Product description

GALILEO GROUT XA is a premixed mortar, adhesive, cementous, mono-component, with offset withdrawal, reinforced with polyacrylonitrile fibers designed to resist the action of aggressive agents, typical of the XA exposure class, according to the UNI EN 206 standard.

Supply and Storage

Packaging: 25 kg. bag (60 bags pallet - 1.500 kg.)

Consumption: approx. 18.5 kg./sqm. per cm. thickness. GALILEO GROUT XA is available in special paper and high-density and thickness polyethylene bags that allow for the product to be stored in a dry place for at least 8 months.

Surface Preparation and Application

Once the degree of concrete deterioration is identified, remove the damaged concrete through high pressure water-blasting or by mechanical means, to be made with pneumatic hammers. The surface roughening is thus a necessary condition to combat the expansion of the material, the mechanism through which the withdrawal compensation is performed. Incorrect preparation of the contact surface could reduce the adhesion characteristics of the product or even promote abnormal behavior. In the presence of outcropping iron reinforcements, it is necessary to clean them of rust by sand-blasting in order to eliminate the degraded and peeled parts of material which might still be present. Once brought to white, cover the reinforcements with a layer of GALILEO PASSIVANTE, specific slurry for reconditioning iron reinforcements. For interventions which require a thickness of GALILEO GROUT XA less than 2 cm., it is not necessary to apply additional meshes. If the intervention requires a higher thickness (up to 5 cm.), it is necessary to apply an arc-welded reinforcement (Ø5 and 10x10 mesh) needed to ensure the contrast. In particular, the mesh should be firmly fixed to the support at a distance of 1 cm. (by means of spacers), so that the sprayed material may fit between the mesh and the concrete surface. As last preparation, it is necessary to saturate the concrete with water, check-

ing for the presence, and remove, if any, of areas of stagnation. Humidifying the support is crucial in ensuring a good adhesion between mortar and concrete. The mixing of GALILEO GROUT XA must be done in mixer or blender machine sprinkler. It is preferable not to use, for the mixing machines with continuous cycle. For limited interventions it is possible to mix by using a power drill, avoiding the excessive incorporation of air.

Always pour the water first (4/5 of total) and then the powder. After a first blending, add the remaining water quantity and mix to obtain a homogeneous mixture, free of lumps with a spread > 200 mm. on the shaking table.

GALILEO GROUT XA should be mixed with water at a rate of approx. 16 liters per 100 kg. of powder (approx. 4 liters per 25 kg. bag).

GALILEO GROUT XA can be applied by mold casting. Because it is a fluid product, the molds must be sealed, water-proofed (so that they do not steal water from the product) and able to contain the expansion of the material, especially in the case of jets with high vertical development. For applications thicker than 5 cm., inerts can be added (type pea gravel 4-8) to an extent of 30% of the total weight of the conglomerate.

Fields of use

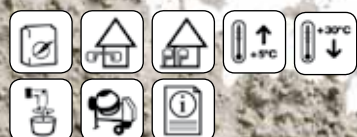
GALILEO GROUT XA is designed for interventions of structural restoration of large buildings and/or items in deteriorated reinforced concrete.

Technical data

| | |
|---|--|
| Water in the mix | 16 % |
| Spread (in mm.) | > 200 |
| Particle size | 0 - 3 mm |
| Resistance to compression UNI EN 196/1 | 1 day: > 20 MPa / 7 days: > 40 MPa / 28 days: > 60 MPa |
| Resistance to flexion UNI EN 196/1 | 1 day: > 4 MPa / 7 days: > 8 MPa / 28 days: > 10 MPa |
| Water impermeability | < 0,5 kg*m ² *h ^{-0,5} |
| Elastic module UNI 6556 (at 28 days) | approx. 27.000 ± 3000 MPa |
| Adherence to concrete UNI EN 1542 | 2 MPa |
| Contrasted expansion (UNI 8147) | 1 g > 0,05% |
| Contrasted expansion at surface (UNI 8147 modif.) | 1 g > 0,04% |
| CO ₂ penetration by phenolphthaleine coloration method | Non measurable |

Disclaimers

GALILEO GROUT XA should be applied at temperatures between 5°C and 30°C; in case of low temperatures (5°C to 10°C), it is recommended to mix the material with warm water (30°C to 40°C). Conversely, if ambient temperatures are high, it is recommended to mix the material with cold water. In the case of low temperatures, mechanical performance may develop somewhat slower.



Consumption: approx. 18 kg./sqm.
per cm. thickness. GALILEO BLOCK is
available in special paper and high-
density and thickness polyethylene bags
that allow for the product to be stored
in a dry place for at least 8 months,
without loss of performance character-
istics and in particular those related to
expansive capacity.

GALILEO BLOCK has been designed specifically for operations of fastening machinery in foundation, such as motors, mechanical equipment, presses, turbines, even those subject to dynamic loads and/or vibration. It is also indicated for the anchorage of crane tracks or crane bridges and for the attachment of structural elements in reinforced concrete or steel.

| | |
|--|--|
| Water in the mix | approx. 17% |
| Fresh volume mass | approx. 2.200 Kg/m ³ |
| Fluidity (UNI 8997 method for superfluid mortars) | t = 0 > 55 cm / t = 30' > 45 cm |
| Particle size | < 3 mm |
| Resistance to compression UNI EN 196/1 | 1 day: > 25 MPa / 7 days: > 50 MPa / 28 days: > 65 MPa |
| Resistance to flexion UNI EN 196/1 | 1 day: > 5 MPa / 7 days: > 8 MPa / 28 days: > 9 MPa |
| Water impermeability | < 0,5 kg*m ² *h ^{-0.5} |
| Elastic module UNI 6556 (at 28 days) | approx. 30.000 + 3000 MPa |
| Adherence to concrete UNI EN 1542 | ≥ 2 MPa |
| Contrasted expansion (UNI 8147) | 1 g > 0,03% |
| Resistance to unthreading of steel bars (Rilem-Ceb-Fip-RC6-78) | 19 MPa |
| Bleeding (UNI 8998) | Absent |

Laboratory analysed performances, in standard humidity conditions (20°C and 95% average humidity)



PASSIVANTE

Bi-component, anti-corrosion coating with corrosion inhibitor for the protection of concrete reinforcement rods



Supply and Storage

GALILEO PASSIVANTE is available in convenient buckets containing the two separate components (powder&liquid) for a total of 2 kg (1.6 kg.+0.4 kg.). Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiration date stamped on the bucket.

Surface Preparation and Application

Clean the iron reinforcements with mechanical or hand tools to remove the rust and make sure that surfaces are free of dust, oil, grease and other pollutants or brittle and insubstantial parts. Pour the component B (liquid) in a bucket and slowly add the component A (powder), stirring constantly at low speed until a homogeneous mixture free of lumps is obtained. Apply GALILEO PASSIVANTE by brush on the properly cleaned reinforcement rods in two coats, with a thickness of about 2 mm. Apply the restoration mortar only after the product is dry and no later than 7 days from the application of the passivating solution.

Fields of use

GALILEO PASSIVANTE is a bi-component anti-corrosive coating, specifically formulated to protect the reinforcement rods before the application of the restoration mortar. Given its iron protective characteristics, it is especially recommended in restoration interventions where it is not possible to obtain, with the restoration mortar, an adequate thickness concrete cover to match the environment of exposure.

Technical data

| | |
|-------------------------|---|
| Specific weight | 1,9 kg/l |
| Composition | Bi-component (liquid+powder) |
| Color | Green |
| Mixing ratio | 4 powder – 1 liquid (to weight) |
| Pot life | 60 min (20°C) |
| Application temperature | higher than +5°C |
| Consumption | ~ 200 gr./ml. (iron rods diameter 8-10 mm.) |

Disclaimers

GALILEO PASSIVANTE should be applied at temperatures between 5°C and 35°C.v



ISI 1050

Cement mortar, thixotropic, polymer modified, for the in-depth rehabilitation of concrete structures.



Product description

GALILEO ISI 1050 is a premixed mortar, cementous, mono-component, polymer modified, fiber-reinforced with polyacrylonitrile fibers, specifically designed for concrete structures.

Supply and Storage

Packaging: 25 kg. bag (60 bags pallet - 1.500 kg.)

Consumption: approx. 17.5 kg./sqm. per cm. thickness. GALILEO ISI 1050 is available in special paper and high-density and thickness polyethylene bags that allow for the product to be stored in a dry place for at least 8 months, without loss of performance characteristics.

Surface Preparation and Application

Before applying GALILEO ISI 1050, it is necessary to properly clean the surface by scraping, sand-blasting or other suitable methods, to obtain a sufficiently rough surface. This method ensures the removal of inconsistent parts and dust, the disposal of any pollutants that might hinder the proper adhesion of the product (residues of cement, oil, disarming). The clean and steady surface thus obtained, will be saturated with water, taking the precaution not to apply the product when there is water stagnation or if the wall is covered by a water film not fully absorbed by the surface. If there is outcropping iron reinforcement and they need to be repaired, remove the surface rust and apply a treatment with GALILEO PASSIVANTE, protective slurry for the restoration of oxidized reinforcements. The mixing of GALILEO ISI 1050 should be done, if you do not use plaster machine, with a power drill at reduced speed, so as not to promote the incorporation of air. Always pour the water first (4/5 of total) and then, gradually, the powder. After a first blending, add the remaining water quantity and mix to obtain a homogeneous mixture free of lumps, with a consistency

suitable for further processing. GALILEO ISI 1050 should be mixed with water at a rate of approx. 17.5 liters per 100 kg of powder (about 4.3 liters per 25 kg bag).

GALILEO ISI 1050 can be applied by hand with a trowel or by spraying, with a plastering machine. In any case, the surface should be prepared as described. The application thickness, depending on the type of intervention, may range from 10 to 50 mm. Once the product has reached the condition known as "out of touch", finish with a float. A proper finishing can effectively counteract the appearance of any superficial cracks.

Fields of use

GALILEO ISI 1050 is designed for in-depth restoration interventions on fine or industrial concrete. Its areas of use may vary from beams, pillars, to load-bearing walls, curbs, stairs. It should not be used in case extended structural interventions, which should be made with offset withdrawal products, for which we recommend the products or GALILEO TIXO or GALILEO GROUT. It may be applied with a plastering machine (type Maltech M5) or with an American hand trowel. The application thickness may vary from 10 mm. to a maximum of 50 mm.

Technical data

| | |
|---|--|
| Water in the mix | approx. 17,5% |
| Max. particle size | < 3 mm |
| Mechanical resistance to compression (UNI 196) | 1 day: > 10 MPa / 7 days: > 30 MPa / 28 days: > 45 MPa |
| Mechanical resistance to flexion (UNI 196) | 1 day: > 2 MPa / 7 days: > 4 MPa / 28 days: > 6 MPa |
| Water impermeability through capillary absorption | < 0,5 kg·m ² ·h ^{-0,5} |
| Elastic module UNI 6556 (at 28 days) | > 25.000 MPa |
| Adhesion to concrete UNI EN 1542 | 1,5 MPa |
| CO ₂ penetration by phenolphthaleine coloration method | Not measurable |

Disclaimers

GALILEO ISI 1050 should be applied at temperatures between 5°C and 30°C; in case of low temperatures (5°C to 10°C), it is recommended to mix the material with warm water (30°C to 40°C). Conversely, if ambient temperatures are high, it is recommended to mix the material with cold water. In the presence of particularly harsh conditions (high temperature or strong wind), it is recommended to protect the application for the next few days after the intervention. In the case of low temperatures, mechanical performance may develop somewhat slower.



ISI 310

Cement mortar, thixotropic, polymer modified, for the in-depth shaving of concrete structures.



Product description

GALILEO ISI 310 is a premixed mortar, cementous, mono-component, polymer modified, fiber-reinforced with polyacrylonitrile fibers, specifically designed for concrete structures.

Supply and Storage

Packaging: 25 kg. bag (60 bags pallet - 1.500 kg.)
Consumption: approx. 1.6 kg./sqm. per cm. thickness. GALILEO ISI 310 is available in special paper and high-density and thickness polyethylene bags that allow for the product to be stored in a dry place for at least 8 months, without loss of performance characteristics.

Surface Preparation and Application

Before applying GALILEO ISI 310, it is necessary to properly clean the surface by scraping, sand-blasting or other suitable methods, to obtain a sufficiently rough surface. This method ensures the removal of inconsistent parts and dust, the disposal of any pollutants that might hinder the proper adhesion of the product (roes of cement, oil, disarming). The clean and steady surface thus obtained, will be saturated with water, taking the precaution not to apply the product when there is water stagnation or if the wall is covered by a water film not fully absorbed by the surface. If there is outcropping iron reinforcement and they need to be repaired, remove the surface rust and apply a treatment with GALILEO PASSIVANTE, protective slurry for the restoration of oxidized reinforcements.
The mixing of GALILEO ISI 310 should be done, if you do not use plaster machine, with a power drill at reduced speed, so as not to promote the incorporation of air. Always pour the water first (4/5 of total) and then, gradually, the powder. After a first blending, add the remaining water quantity and mix to obtain a homogeneous mixture free of lumps, with a con-

sistency suitable for further processing. GALILEO ISI 310 should be mixed with water at a rate of approx. 22-23 liters per 100 kg of powder (about 5.5 liters per 25 kg bag). GALILEO ISI 310 can be applied by hand with a trowel or by spraying, with a plastering machine. In any case, the surface should be prepared as described. The application thickness, depending on the type of intervention, may range from 2-3 to 10 mm.
Once the product has reached the condition known as "out of touch", finish with a float. A proper finishing can effectively counteract the appearance of any superficial cracks.

Fields of use

GALILEO ISI 310 is designed for in-depth shaving interventions on concrete structures. It is used to perform light preventive restoration (crawl spaces or openings) and for subsequent shaving of the work. If the thickness does not exceed 1 cm., it can be used to restore any missing portions of the cover. It may be applied with a plastering machine (type Maltech M5) or with an American hand trowel. The application thickness may vary from 10 mm. to a maximum of 50 mm.

Technical data

| | |
|---|--------------------------------------|
| Water in the mix | approx. 23% |
| Max. particle size | 0,6 mm |
| Mechanical resistance to compression (UNI 196) | 7 days: > 15 MPa / 28 days: > 25 Mpa |
| Mechanical resistance to flexion (UNI 196) | 7 days: > 4 MPa / 28 days: > 6 Mpa |
| Elastic module UNI 6556 (at 28 days) | > 15000 MPa |
| Adhesion to concrete UNI EN 1542 | 1,5 MPa |
| CO ₂ penetration by phenolphthaleine coloration method | Not measurable |

Disclaimers

GALILEO ISI 310 should be applied at temperatures between 5°C and 30°C; in case of low temperatures (5°C to 10°C), it is recommended to mix the material with warm water (30°C to 40°C). Conversely, if ambient temperatures are high, it is recommended to mix the material with cold water. In the presence of particularly harsh conditions (high temperature or strong wind), it is recommended to protect the application for the next few days after the intervention. In the case of low temperatures, mechanical performance may develop somewhat slower.



The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.

RASATURA

Cement mortar, thixotropic, polymer modified, for the shaving of concrete structures.



Product description

RASATURA is a premixed mortar, cementous, mono-component, polymer modified, fiber-reinforced with polyacrylonitrile fibers, specifically designed for concrete structures (normal and reinforced).

Supply and Storage

Packaging: 25 kg. bag (60 bags pallet - 1.500 kg.)

Consumption: approx. 1.6 kg./sqm. per cm. thickness. GALILEO RASATURA is available in special paper and high-density and thickness polyethylene bags that allow for the product to be stored in a dry place for at least 8 months.

Surface Preparation and Application

Before applying GALILEO RASATURA, it is necessary to properly clean the surface by scraping, sand-blasting or other suitable methods, to obtain a sufficiently rough surface. This method ensures the removal of inconsistent parts and dust, the disposal of any pollutants that might hinder the proper adhesion of the product (roes of cement, oil, disarming). The clean and steady surface thus obtained, will be saturated with water, taking the precaution not to apply the product when there is water stagnation or if the wall is covered by a water film not fully absorbed by the surface. The mixing of GALILEO RASATURA should be done, if you do not use plaster machine, with a power drill at reduced speed, so as not to promote the incorporation of air. Always pour the water first (4/5 of total) and then, gradually, the powder. After a first blending, add the remaining water quantity and mix to obtain a homogeneous mixture free of lumps, with a consistency suitable for further processing. GALILEO RASATURA should be mixed with water at a rate of approx. 22-23 liters per 100 kg of powder (about 5.5 liters per 25 kg bag). GALILEO RASATURA can be applied by

hand with a trowel or by spraying, with a plastering machine. In any case, the surface should be prepared as described. The application thickness, depending on the type of intervention, may range from 1 to 3 mm.

Once the product has reached the condition known as "out of touch", finish with a float. A proper finishing can effectively counteract the appearance of any superficial cracks.

Fields of use

GALILEO RASATURA is designed for shaving interventions on concrete structures such as balconies, cornices, parapets but also beams, columns, curbs. It is possible to fix small casting defects as long as they are no larger than 3 mm. in depth (in the case of deeper defects or cracks, use GALILEO ISI 310 or GALILEO ISI 1050).

GALILEO RASATURA is the ideal completion of an intervention cycle of concrete rehabilitation made with structural mortar from the GALILEO line (GALILEO TIXO or GROUT).

It may be applied with plastering machine (type Maltech M5) or with an American hand trowel. The application thickness may vary from 1 mm. to a maximum of 3 mm.

Technical data

| | |
|---|--------------------------------------|
| Water in the mix | approx. 23% |
| Max. particle size | 0,6 mm |
| Mechanical resistance to compression (UNI 196) | 7 days: > 15 MPa / 28 days: > 25 Mpa |
| Mechanical resistance to flexion (UNI 196) | 7 days: > 3 MPa / 28 days: > 5 Mpa |
| Elastic module UNI 6556 (at 28 days) | ≥ 15000 MPa |
| Adhesion to concrete UNI EN 1542 | ≥ 1,5 MPa |
| CO ₂ penetration by phenolphthaleine coloration method | Not measurable |

Disclaimers

GALILEO RASATURA should be applied at temperatures between 5°C and 30°C; in case of low temperatures (5°C to 10°C), it is recommended to mix the material with warm water (30°C to 40°C). Conversely, if ambient temperatures are high, it is recommended to mix the material with cold water. In the presence of particularly harsh conditions (high temperature or strong wind), it is recommended to protect the application for the next few days after the intervention.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



ISI RAPID

Cement mortar, thixotropic, polymer modified, fast-curing, for the rehabilitation of concrete structures.



Product description

GALILEO ISI RAPID is a premixed mortar, cementous, mono-component, polymer modified, fiber-reinforced with polyacrylonitrile fibers, fast-curing, specifically designed for concrete structures.

Supply and Storage

Packaging: 25 kg. bag (60 bags pallet - 1.500 kg.)
Consumption: approx. 18 kg./sqm. per cm. thickness. GALILEO ISI RAPID is available in special paper and high-density and thickness polyethylene bags that allow for the product to be stored in a dry place for at least 8 months, without loss of performance characteristics and in particular those related to expansive capacity.

Surface Preparation and Application

Before applying GALILEO ISI RAPID, it is necessary to properly clean the surface by scraping, sand-blasting or other suitable methods, to obtain a sufficiently rough surface. This method ensures the removal of inconsistent parts and dust, the disposal of any pollutants that might hinder the proper adhesion of the product (roes of cement, oil, disarming). The clean and steady surface thus obtained, will be saturated with water, taking the precaution not to apply the product when there is water stagnation or if the wall is covered by a water film not fully absorbed by the surface. If there is outcropping iron reinforcement and they need to be repaired, remove the surface rust and apply a treatment with GALILEO PASSIVANTE, protective slurry for the restoration of oxidized reinforcements.
The mixing of GALILEO ISI RAPID should be done, if you do not use plaster machine, with a power drill at reduced speed, so as not to promote the incorporation of air. Always pour the water first (4/5 of total) and then, gradually, the powder. After a first blending, add the remaining water quantity and mix to obtain a homogene-

ous mixture free of lumps, with a consistency suitable for further processing. GALILEO ISI RAPID should be mixed with water at a rate of approx. 15 liters per 100 kg of powder (about 3.7 liters per 25 kg bag). It is recommended to mix a product quantity sufficient to be used within the next 15-20 minutes. GALILEO ISI RAPID can be applied by hand with a trowel or by spraying, with a plastering machine. The application thickness, depending on the type of intervention, may range from 3 to 40 mm. in one coat.
Once the product has reached the condition known as "out of touch", finish with a float. A proper finishing can effectively counteract the appearance of any superficial cracks.

Fields of use

GALILEO ISI RAPID is designed for quick and punctual repair interventions on concrete structures such as beams, pillars, walls of support, curbs, steps. Do not use in the case of larger interventions and/or in structural interventions, for which we recommend the use of GALILEO TIXO or GROUT. The application thickness may vary from 3 mm. to a maximum of 40 mm.

Technical data

| | |
|---|---|
| Water in the mix | approx. 15% |
| Pot life | approx. 15-20 minutes |
| Curing time | final cure < 45 min. |
| Max. particle size | < 1,2 mm |
| Mechanical resistance to compression (UNI 196) | 3 hours: > 3 MPa / 7 days: > 25 MPa / 28 days: > 45 MPa |
| Mechanical resistance to flexion (UNI 196) | 7 days: > 4 MPa / 28 days: > 6 Mpa |
| Water impermeability through capillary absorption | < 0,5 kg*m ² *h ^{-0,5} |
| Elastic module UNI 6556 (at 28 days) | > 25000 MPa |
| Adhesion to concrete UNI EN 1542 | 1,5 MPa |

Disclaimers

GALILEO ISI RAPID should be applied at temperatures between 5°C and 30°C; in case of low temperatures (5°C to 10°C), it is recommended to mix the material with warm water (30°C to 40°C). Conversely, if ambient temperatures are high, it is recommended to mix the material with cold water. In the presence of particularly harsh conditions (high temperature or strong wind), it is recommended to protect the application for the next few days after the intervention.



GRIGOFLEX

Waterproof coating, bi-component and flexible, based on cement and acrylic polymers, for the treatment of concrete structures and masonry.



Product description

GRIGOFLEX is a premixed powder which, mixed with GRIGOFLEX Comp. B, results in a waterproof coating with high adhesion to the surface, flexibility and permeability to water vapor.

GRIGOFLEX is mainly used for the treatment of: tanks, water purifiers, swimming pools, aqueducts, canals, elevator shafts, earth dams, basements, locker rooms, showers, balconies, terraces, etc. GRIGOFLEX should be applied in two layers with a scrubbing brush, spatula or brush and can be used vertically and horizontally to ensure a perfect seal in thrust and counter-thrust. In the presence of cracks is strongly recommended the use of a reinforcement, fiberglass alkali-resistant mesh, interposed between two layers. GRIGOFLEX is available as a 34 kg. kit (25 kg. of powder and 8.8 l of liquid).

Supply and Storage

Packaging: 25 kg. bag/ 8.8 l canister
Consumption: approx. 1.7 kg./sqm. per mm. of thickness

Surface Preparation and Application

Verify the conditions of the surface: cast spars, gravel nests, cracks, holes for bolts of molds and surface defects, must be sealed, shaved and/or plastered with GALILEO ISI RAPID.

The surfaces to be treated should appear structurally sound and well cleaned from dust, oil, grease, efflorescence, and usually from all materials which may affect adherence (disarming of molds). For cleaning, it is recommended to use systems such as sand-blasting, water-blasting or water under pressure (pressure washer). In the case of old structures to be restored, it is recommended the demolition of existing material at the corners and/or connection areas between vertical walls and flooring

and replace it with GALILEO ISI RAPID by creating a concave surface which can accommodate the GRIGOLFLEX. GRIGOFLEX should be mixed with a power drill at low revs.

Always pour the water first and then the powder, mix for about 3-5 minutes until obtaining a creamy mixture, free of lumps. Allow the dough to rest for about 5 minutes to allow for proper dispersion of the polymer.

Fully soak the surface with clean water and then remove the water in excess. GRIGOFLEX may be applied by scrubbing brush, trowel or brush in two layers, after the hardening of the first one, to a maximum total thickness of about 3-4 mm. After having installed the first layer, stretch and embed a fiberglass alkali-resistant mesh with 6.5 x 6, 5 mm. nets. In the case of the closed structures with limited ventilation, remove any traces of condensation.

Technical data

| | |
|---|--|
| Max. application thickness | 3-4 mm |
| Mixing ratio | powder:liquid = 2,85:1 |
| Impermeability to water (1.5 atm. per 7 days in positive slope) UNI EN 12390/8 mod. | waterproof |
| Capillary absorption and water permeability (EN 1062-3) | $w < 0,1 \text{ kg/m}^2\text{h}^{0.5}$ |
| Elongation at break (after 28 days at 23°C and 60% relative humidity) | > 15% |
| Water vapor permeability coefficient | $\mu < 250 / s_d < 2 \text{ m}$ |
| CO ₂ dispersal coefficient | Not measurable |
| Fresh volume mass | 1650 kg/m ³ |
| Adhesion to concrete | > 0,5 MPa |
| Pot life | > 45 min. |
| Curing time | > 3h |

For structure which come in contact with aggressive waters (durability in °F), acid substances (pH), high temperatures (°C) and surfaces in the presence of efflorescence or sulphates, please contact the Technical Department of Fornaci Calce Grigolin S.p.A.

Disclaimers

Do not apply GRIGOLFLEX at temperatures below 5°C and above 30°C, or which might go below 5°C within the next 24 hours. In normal conditions, wait for at least 7 days before contact with the water. Avoid contact with hydrocarbons.



GRIGOCEM

Waterproof rigid coating, mono-component, based on cement and acrylic polymers, for the treatment of concrete structures and masonry.



Product description

GRIGOCEM is a premixed powder, ready-to-use, which, mixed with water or a mixture of water and PRG10, results in a waterproof coating with high adhesion to the surface, resistant to abrasion and shock and permeability to water vapor. GRIGOCEM is mainly used for the treatment of: tanks, water purifiers, swimming pools, aqueducts, canals, elevator shafts, earth dams, basements, locker rooms, showers, balconies, terraces, etc. GRIGOCEM should be applied in two layers with a scrubbing brush, spatula or brush and can be used vertically and horizontally to ensure a perfect seal in thrust and counter-thrust.

GRIGOCEM is available in 25 kg. bags.

Supply and Storage

Packaging: 25 kg. bag

Consumption: approx. 1.5 kg./sqm. per mm. of thickness

Surface Preparation and Application

Verify the conditions of the surface: cast sparys, gravel nests, cracks, holes for bolts of molds and surface defects, must be sealed, shaved and/or plastered with products from the GALILEO line.

The surfaces to be treated should appear structurally sound and well cleaned from dust, oil, grease, efflorescence, and usually from all materials which may affect adherence (disarming of molds).

For cleaning, it is recommended to use systems such as sand-blasting, water-blasting or water under pressure (pressure washer).

GRIGOCEM should be mixed with a power drill at low revs.

Always pour the water first (22% to obtain a spatulable product) and then the powder, mix for about 3-5 minutes until obtaining a creamy mixture, free of lumps.

To improve its characteristics, mix the product with a combination of water and PRG10 (ratio 7:1).

Allow the dough to rest for about 5 minutes to allow for proper dispersion of the polymer.

Before applying, mix again at low revs for about 30 seconds.

Fully soak the surface with clean water and then remove the water in excess. Pay attention to excessively absorbant surfaces and, in case of limited smoothness of the product, repeat the operation.

GRIGOCEM may be applied by scrubbing brush, trowel or brush in two layers, after the hardening of the first one, to a maximum total thickness of about 3-4 mm. The second layer should be applied after the hardening of the first one and after watering the surface with clean water. The final thickness should be of approx. 3 mm.

In the case of the closed structures with limited ventilation, remove any traces of condensation.

Technical data

| | |
|---|--|
| Mixture specific weight | approx. 1.900 kg./m ³ |
| Impermeability to water (1.5 atm. per 7 days in positive slope) UNI EN 12390/8 mod. | waterproof |
| Capillary absorption and water permeability (EN 1062-3) | $w < 0,1 \text{ kg/m}^2\text{h}^{0,5}$ |
| Water vapor permeability coefficient | $\mu < 80 / s_d < 2 \text{ m}$ |
| Resistance to flexion (28 days) | > 4 MPa |
| Resistance to compression (28 days) | > 30 MPa |
| Dynamic elastic module | 16000 ± 2000 MPa |
| Adhesion to concrete | > 1 MPa |
| Pot life | 45 min |
| Final curing time | approx. 250 min. |
| Water in the mix | approx. 5.5 l. |

Disclaimers

Do not apply GRIGOCEM at temperatures below 5°C and above 30°C, or which might go below 5°C within the next 24 hours. In case of strong winds or sunlight, protect the surface in the first few days after application.

In normal conditions, wait for at least 7 days before contact with the water.

If used in combination with PRG10, avoid contact with hydrocarbons.



TECNIFOND

Cement mortar, adhesive, with controlled withdrawal, for the construction of micropiles.



Product description

GALILEO TECNIFOND is a premixed mortar, mono-component, adhesive, with controlled withdrawal, designed specifically for the construction of micropiles in cementous conglomerate. * It has moderate resistance to sulphates.

Supply and Storage

GALILEO TECNIFOND is available in special paper and high-density polyethylene bags of 30 and 40 kg. or in bulk, in silo.

Consumption: approx. 19 kg./sqm. for 1 cm. thickness.

Surface Preparation and Application

GALILEO TECNIFOND should be mixed with water at a rate of approx. 14 liters per 100 kg of powder (about 5.5 liters per 40 kg. bag). We recommend using machines with dual mixing (supplied by us), or technical solutions capable to ensure a proper and effective mixing of the product with water.

GALILEO TECNIFOND should be applied at temperatures between 5°C and 30°C; in case of low temperatures (5°C to 10°C), it is recommended to mix the material with warm water (30°C to 40°C). Conversely, if ambient temperatures are high, it is recommended to mix the material with cold water.

The UNI EN 14199 standard

GALILEO TECNIFOND is designed to meet the recommendations of the "UNI EN 14199 Execution of special geotechnical works: micropiles", which specifies that the concrete used for the realization of micropiles must meet the following minimum requirements:

- absence of the bleeding and/or segregation phenomena;
- good cohesion of the dough;
- adequate liquidity;
- ability to self-compaction;
- maintaining workability during the entire casting procedure;
- particle size distribution of: $d_{85} < 4\text{mm}$ and $d_{100} < 8\text{mm}$
- minimum cement content $> 375 \text{ kg/m}^3$
- water-cement ratio < 0.6
- mechanical resistance to compression at 28 days $> 25 \text{ N/mm}^2$

Technical data

| | |
|--|---------------------------------|
| Water in the mix | approx. 14% |
| Spread (in mm.), no shock | > 210 |
| Mixture volume mass | approx. 2.200 Kg/m^3 |
| Max. particle size | 3 mm |
| Mechanical resistance to compression (UNI 196) 28 days | 35 N/mm^2 |
| Mechanical resistance to flexion (UNI 196) 28 days | 6 N/mm^2 |
| Elastic module (at 28 days) | $25000 \pm 3000 \text{ N/mm}^2$ |

Disclaimers

In case of application in very harsh climates there may be a slowdown in the development of mechanical strength.

* In case of casting in soils with high concentrations of sulphates ($> 12,000 \text{ mg./kg.}$) or in contact with very aggressive waters (i.e. with concentrations $3.000 < \text{SO}_4 = < 6000 \text{ mg./l.}$), please inform our technical service before the application.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornac Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



GEOFOND

Cement mortar, adhesive, with controlled withdrawal, for the construction of micropiles.



Product description

GALILEO GEOFOND is a premixed mortar, mono-component, adhesive, with controlled withdrawal, designed specifically for the construction of micropiles in cementous conglomerate.

Supply and Storage

GALILEO GEOFOND is available in special paper and high-density polyethylene bags of 40 kg. or in bulk, in silo. Consumption: approx. 19 kg./sqm. for 1 cm. thickness.

Surface Preparation and Application

GALILEO GEOFOND should be mixed with water at a rate of approx. 14 liters per 100 kg of powder (about 5.5 liters per 40 kg. bag). We recommend using machines with dual mixing (supplied by us), or technical solutions capable to ensure a proper and effective mixing of the product with water.

The UNI EN 14199 standard

GALILEO TECNIFOND is designed to meet the recommendations of the "UNI EN 14199 Execution of special geotechnical works: micropiles", which specifies that the concrete used for the realization

of micropiles must meet the following minimum requirements:

- absence of the bleeding and/or segregation phenomena;
- good cohesion of the dough;
- adequate liquidity;
- ability to self-compaction;
- maintaining workability during the entire casting procedure;
- particle size distribution of: $d_{85} < 4\text{mm}$ and $d_{100} < 8\text{mm}$
- minimum cement content $> 375 \text{ kg/m}^3$
- water-cement ratio < 0.6
- mechanical resistance to compression at 28 days $> 25 \text{ N/mm}^2$

Technical data

| | |
|--|---------------------------------|
| Water in the mix | approx. 14% |
| Spread (in mm.), no shock | > 210 |
| Mixture volume mass | approx. 2.200 Kg/m^3 |
| Max. particle size | 3 mm |
| Mechanical resistance to compression (UNI 196) 28 days | 35 N/mm^2 |
| Mechanical resistance to flexion (UNI 196) 28 days | 6 N/mm^2 |
| Elastic module (at 28 days) | $25000 \text{ N/mm}^2 \pm 3000$ |

Disclaimers

GALILEO TECNIFOND should be applied at temperatures between 5°C and 30°C ; in case of low temperatures (5°C to 10°C), it is recommended to mix the material with warm water (30°C to 40°C). Conversely, if ambient temperatures are high, it is recommended to mix the material with cold water.



UNIX

Premixed mortar, cementous, universal, polymer-modified, for skim plastering and/or localized rehabilitation interventions.



Product description

GALILEO UNIX is a fiber reinforced, cementous, mono-component, premixed mortar.

Supply and Storage

Packaging: 25 kg. bag (60 bags pallet - 1.500 kg.)

Consumption: approx. 1.3 kg./sqm. per cm. thickness.

GALILEO UNIX is available in special paper and high-density and thickness polyethylene bags that allow for the product to be stored in a dry place for at least 8 months, without loss of performance characteristics.

Surface Preparation and Application

Before applying GALILEO UNIX, it is necessary to thoroughly clean the surface by scraping, sand-blasting or any other suitable methods, to eliminate pollutants that may hinder product grip (roes of cement, disarming oil). Carefully test the strength of the surface to be treated (in particular in the case of old coatings). Remove any dusty and/or inconsistent elements from the surface. The application of the product on surfaces which are not perfectly coherent and/or insufficiently substantial may prejudice the technical characteristics of the material. Prior to application, soak the area with plenty of water, with particular attention in the presence of absorbing surfaces. The mixing of GALILEO UNIX must be made by power drill at low revs. First add the water (4/5 of total) in the container and then add the powder. After a first blending, add the remaining quantity of water and mix to obtain a homogeneous mixture with the desired consistency. GALILEO UNIX should be mixed with water at a rate of approx. 21 liters per 100 kg. of powder (about 5.2 liters per 25 kg. bag, depending on the type of

intervention: for smaller repairs, a smaller quantity might be sufficient). GALILEO UNIX may be applied by trowel or spatula. The thickness of application may vary from 1 to 5 mm. per layer. In case of restoration of areas with limited surface (crawl spaces, cracks), thicknesses up to 2 cm. in a single layer may be sufficient. Once the product has reached the condition known as "out of touch", finish with a float. A proper finishing can effectively counteract the appearance of any superficial cracks. GALILEO UNIX should be applied at temperatures between 5°C and 30°C; In case of strong winds or sunlight, protect the surface in the first few days after application. In the case of low temperatures, mechanical performance may develop somewhat slower. Do not apply onto gypsum surfaces.

Fields of use

GALILEO UNIX is intended for shaving interventions on masonry and concrete, on old and new plasters, on facades with plastic or regular coatings: its particular rheology also allows for localized, non-structural shaving and restoration interventions on concrete.

Technical data

| | |
|--|------------------------|
| Water in the mix | approx. 21% |
| Fresh mass volume | 1550 kg/m ³ |
| Max. particle size | 0,5 mm |
| Application thickness | 1 - 10 mm |
| Mechanical resistance to compression (UNI 196) 28 days | 9 MPa |
| Mechanical resistance to flexion (UNI 196) 28 days | 2,5 MPa |
| Permeability to water vapor | μ = 15 |





palladio

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palladio

The constant innovation efforts aimed at protecting people and the environment around them, have led Fornaci Calce Grigolin to the development of the Palladio line for Bio-Construction and Restoration. The bio-building seeks to recover traditions and constructive knowledge of the past, adapting them to natural demands, based on the assumption that humans, housing and the environment need to be in perfect harmony, while the main goal of the restoration process is to prolong the life of the work with respect to the initial project both in architectural terms and in terms of materials, preserving it in its nature. Animated by these principles and through the use of soil binders and additives of natural origins, our company has created a Palladio line, which ensures structure sustainability and durability over time, both essential requirements in construction and restoration of any architectural work.



CALCE NATURA

Natural hydraulic lime NHL 3.5 according to the EN 459-1 Standard



Product description

CALCE NATURA is a natural hydraulic lime NHL 3.5 according to the EN 459-1 Standard obtained through calcination of limestone marl extracted from natural quarries, performed in vertical furnaces and subsequently subjected to extinguishing treatment and maturation process before being sent to the grinder. CALCE NATURA is a traditional binder, free of cement and gypsum, with a good resistance to sulphates. The hardening process is slow, with low withdrawals and development of resistance over time. The obtained mortars have a low elasticity module, with a high surface grip and good water retention, which facilitates proper curing.

Supply and Storage

CALCE NATURA is supplied in 25 kg. bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Fields of use

CALCE NATURA, besides being used in the formula of the PALLADIO product line, is suitable for interior and exterior decorative plasters, for use in restoration as a binder to be included in the composition of rehabilitation, dehumidifying or lightweight mortars and

plasters, or to consolidate arches and masonry with the "cuci-scuci" technique. The high purity of raw materials and the production techniques used make it particularly suitable for interventions in Biobuilding for the production of plasters, substrates and finishing, mortars for masonry and screeds. Thanks to the clear color of the product, it may also be used for the production of items which can highlight the color of the aggregates used ("salt and pepper") or of the solids and coloring oxides.

Technical data according to the EN 459-1 Standard

| | |
|---|-----------------------|
| Clasificare | NHL 3,5 |
| Time for curing start | > 150 minutes |
| Time for cure end | < 900 minutes |
| Mechanical resistance to compression at 28 days | 4,8 N/mm ² |
| Mechanical resistance to flexion at 28 days | 1,6 N/mm ² |
| SO ₃ | 0,4 % |
| Free CaO | > 32 |
| Specific weight in free fall | 550 kg/m ³ |
| White Color | Paglierino |

Disclaimers

Avoid extreme changes in heat while hardening. The item produced by using the CALCE NATURA presents a slower development of resistance compared to products prepared with cement and are therefore especially susceptible to frost. Avoid using CALCE NATURA when temperatures are below +5°C and assessing the degree of absorption of the surface, at temperatures above + 25° C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



BM 30

Bio-mortar for masonry with exposed concrete, M2.5 class



Product description

Dry premix based on selected inerts, binders based on slaked and hydraulic lime, with high purity and low soluble salt content and highly bio-degradable special additives.

Supply and Storage

BM30 is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. When temperatures are high, it is advisable to wet out the brick before laying. For the application, operate as follows: Prepare the dough by adding about 19 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item.

Fields of use

BM30 is a mortar for masonry with exposed concrete, interior or exterior, particularly indicated for restoration and bio-construction works, which require low mechanical resistance and high plasticity and grip. Its special formula allows for the obtaining of a mortar with mechanical resistance to compression equal to 2.5 N/mm² after 28 days. The low particle size allows for a perfect styling of the joints.

Specifications

The elements used for the elevation of the walls, both internal and external, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar BM30 from Fornaci Calce Grigolin, dry premix based on selected inerts, slaked and hydraulic binders and special additives to improve workability and grip.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|---|
| Specific weight | 1.400 kg/m ³ determined in free fall |
| Maximum diameter | 1,2 mm |
| Pot life | 2 h |
| Water in the mix | approx. 19% |
| Min. application thickness | 0,5 cm |
| Mechanical resistance to flexion at 28 days | > 1,0 N/mm ² |
| Mechanical resistance to compression at 28 days (M2.5) | > 2,5 N/mm ² |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,54 W/mK |

Disclaimers

Do not mix BM30 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using BM30 when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.



BM 55

Bio-mortar for masonry, M5 class



Product description

Dry premix based on selected inerts, binders based on slaked and hydraulic lime, with high purity and low soluble salt content and highly bio-degradable special additives.

Supply and Storage

BM55 is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. When temperatures are high, it is advisable to wet out the brick before laying.

For the application, operate as follows: Prepare the dough by adding about 17 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item.

Fields of use

BM55 is a mortar indicated for restoration and bio-construction works, which do not require high mechanical resistance, but rather high elasticity and grip. Its special formula allows for the obtaining of a mortar with mechanical resistance to compression equal to 5 N/mm² after 28 days.

Specifications

The elements used for the elevation of the walls, both internal and external, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar BM55 from Fornaci Calce Grigolin, dry premix based on selected inerts, slaked and hydraulic binders and special additives to improve workability and grip.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1550 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Pot life | 2 h |
| Water in the mix | approx. 17% |
| Min. application thickness | 0,5 cm |
| Mechanical resistance to flexion at 28 days | > 2,0 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 6 N/mm ² |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,92 W/mK |

Disclaimers

Do not mix BM55 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using BM55 when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



BMK 30

Water-proof, bio-mortar for masonry with exposed concrete, M2.5 class



Product description

Dry premix based on selected inerts, binders based on slaked and hydraulic lime, with high purity and low soluble salt content, highly bio-degradable special additives and water-repelling agent.

Supply and Storage

BMK30 is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. When temperatures are high, it is advisable to wet out the brick before laying. For the application, operate as follows: Prepare the dough by adding about 19 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item. Once the plastic phase is finished, proceed to fix the joints with the appropriate iron.

Fields of use

BMK30 is a mortar for masonry with exposed concrete, interior or exterior, particularly indicated for restoration and

bio-construction works, which require low mechanical resistance and high plasticity and grip. Its special formula allows for the obtaining of a mortar with mechanical resistance to compression equal to 2.5 N/mm² after 28 days. The low particle size allows for a perfect styling of the joints.

Specifications

The elements used for the elevation of the walls, both internal and external, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar BMK30 from Fornaci Calce Grigolin, dry premix based on selected inerts, slaked and hydraulic binders and special additives to improve workability and grip. The use of the particular mixture of binders, in combination with waterproof agent in the production of BMK30 gives the final product high durability over time, given its chemical nature.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1400 kg/m ³ determined in free fall |
| Maximum diameter | 1,2 mm |
| Pot life | 2 h |
| Water in the mix | approx. 19% |
| Min. application thickness | 0,5 cm |
| Mechanical resistance to flexion at 28 days | > 1,0 N/mm ² |
| Mechanical resistance to compression at 28 days (M2.5) | > 2,5 N/mm ² |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,54 W/mK |

Disclaimers

Do not mix BMK30 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using BMK30 when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.



MC 25

Slaked bio-mortar for masonry,
M2.5 class mechanical resistance



Product description

Dry premix based on selected inerts, high purity slaked lime, hydraulic binders with low soluble salt content and highly bio-degradable special additives.

Supply and Storage

MC25 is supplied in bulk, in a 22m³ silo.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. When temperatures are high, it is advisable to wet out the brick before laying.

For the application, operate as follows: adjust the water intake of the mixer to reach optimum consistency. Proceed with application after having placed alignment and lead weights, taking care to properly attach each item. Once the plastic phase is finished, proceed to fix the joints with the appropriate iron.

Fields of use

MC25 is a mortar particularly indicated for restoration works which require low

mechanical resistance and high plasticity and grip. Its special formula allows for the obtaining of a product with mechanical resistance to compression equal to 2.5 N/mm² after 28 days.

Specifications

The elements used for the elevation of the walls, both internal and external, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MC25 from Fornaci Calce Grigolin, dry premix based on selected inerts, slaked and hydraulic binders and special additives to improve workability and grip.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|------------------------------------|
| Specific weight | 1450 kg/m³ determined in free fall |
| Maximum diameter | 2 mm |
| Pot life | 2 h |
| Water in the mix | approx. 28% |
| Min. application thickness | 0,5 cm |
| Mechanical resistance to flexion at 28 days | > 1,0 N/mm² |
| Mechanical resistance to compression at 28 days (M2.5) | > 2,5 N/mm² |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm² (tabulated value) |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,55 W/mK |

Disclaimers

Do not mix MC25 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MC25 when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



BS 90

Traditional screed based on natural hydraulic lime



Product description

Dry premix based on inerts selected in an adequately reconstructed curve from 0 to 3 mm., a mixture of hydraulic binders based on natural hydraulic lime and special additives.

Supply and Storage

BS90 is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The surfaces to be covered with BS90 should be free from dust, efflorescence, oils and fats. Before installing the screed, check the moisture degree of the surface in order not to affect the normal drying of the substrate itself. BS90 may be mixed in mixer until it reaches a consistency similar to that of moist soil. The material thus prepared should be applied in an uniform way. After having been compacted, it should be evened off with the aluminum level and finished with a float or with a rotating disc machine.

Fields of use

BS90 is a screed suitable for the preparation of substrates, both interior and exterior.

Specifications

The interior and exterior surfaces will be prepared with the traditional screed BS90 from Fornaci Calce Grigolin, dry premix based on selected inerts, hydraulic binders based on natural hydraulic lime and special additives aimed at improving workability, which does not require additional inerts or binders, to be mixed with water until it reaches a consistency similar to that of moist soil.

Technical data according to the UNI EN 13813 Standard

| | |
|---|---|
| Specific weight | 1 800 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Pot life | 1 h |
| Water in the mix | until consistency of moist soil |
| Min. application thickness | 4 cm |
| Mechanical resistance to compression at 28 days (C16) | 16,0 N/mm ² |
| Mechanical resistance to flexion at 28 days (F4) | 4,0 N/mm ² |
| Consumption | 20 kg/m ² per cm |
| Fire resistance | A1 class |

Disclaimers

Výrobek BS 90 nemíchejte s jinými hmotami. Zamezte silným tepelným výkyvům během tuhnutí.

Chraňte před mrazem a rychlým schnutím. Doporučujeme nepoužívat BS 90 při teplotách pod +5° a nad +30 °C. Nenanášejte na zmrzlé podklady.



BI 19

Traditional bio base render, based on slaked lime



Product description

Dry premix based on selected inerts, binders based on high-purity slaked lime and low content of soluble salts, small traces of hydraulic binder and highly bio-degradable special additives.

Supply and Storage

BI19 is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

Areas affected by irregularities greater than 2 cm should be prepared with at least 48 hours in advance with a filling of the same BI19, avoiding the use of too much water during dough preparation, which might result in a decrease of mechanical strength. For the application, operate as follows: after having positioned the corners, preferably with the same BI19, and having adjusted the water intake to obtain a consistent mortar of plastic appearance, it is possible to start working at a distance of about 15-20 cm in to obtain a thickness of about 1-2 cm per layer, by allowing to pass no more than 8-12 hours between layer application, so that the product may develop the so-called "film". After a few minutes, even off with the aluminum level. After curing (about 8 hours) finish with a wooden or plastic float. The product thus applied may be finished with fine mortar for interior applications, which must be performed within the next 24-48 hours, depending on external temperature. If the application is performed outdoors, we recommend the finish BIK07 based on natural hydraulic lime. Alternatively, for colored finishes, it is possible to use high breathability products from the arteMURI line, such as those lime-based 5th CALCE 0.7÷1.8 mm, silicate-based SIL4 INTO 0.7÷2.5 mm or siloxane XIL2 INTO 0,7÷2.5 mm.

Fields of use

BI19 may be used for interior and exterior plastering on dry surfaces like brick, rough concrete, blocks and plaster-port network. Smooth concrete structures must first be rough coated with our RG12. BI19 should not be used on painted or inconsistent and brittle surfaces.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a level surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered by using a mixer pump with stator and rotor with the BI19 plaster from Fornaci Calce Grigolin, dry premix based on selected inerts, slaked lime based binders, small traces of hydraulic binder and additives to improve workability and grip, at a rate of 14 kg/m² for a thickness of 1 cm applied. The most wide-spread use, as a binder, of the hydrated lime in the production of the plaster gives the end product a high water vapor permeability ($\mu=7$). The minimum application thickness will be 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|--|---|
| Specific weight | 1450 kg/m ³ determined in free fall |
| Maximum diameter | 2 mm |
| Pot life | 20 min. |
| Water in the mix | approx. 22% |
| Mechanical resistance to flexion at 28 days | 0,8 N/mm ² |
| Mechanical resistance to compression at 28 days (cat. CS II) | 2,0 N/mm ² |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Consumption | 14 kg/m ² per 1 cm layer |
| Water vapor permeability μ | 7 |
| Fire resistance | A1 class |
| Min. application thickness | 1,5 cm |
| Adhesion to brick | 0,6 N/mm ² |
| Fracture type | A |
| Water absorption | W0 |
| Thermal conductivity λ | 0,38 W/mK (tabulated value) |

Disclaimers

Do not mix BI19 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using BI19 when temperatures are below +5°C or above +30°C.



BI 21

Traditional bio base render, based on natural hydraulic lime



Product description

Dry premix based on selected inerts, binders based on high-purity slaked and hydraulic lime and low content of soluble salts and highly bio-degradable special additives.

Supply and Storage

BI21 is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

Areas affected by irregularities greater than 2 cm should be prepared with at least 48 hours in advance with a filling of the same BI21, avoiding the use of too much water during dough preparation, which might result in a decrease of mechanical strength. For the application, operate as follows: after having positioned the corners, preferably with the same BI21, and having adjusted the water intake to obtain a consistent mortar of plastic appearance, it is possible to start working at a distance of about 15-20 cm in to obtain a thickness of about 1-2 cm per layer. After a few minutes, even off with the aluminum level. After curing (about 8 hours) finish with a wooden or plastic float. The product thus applied may be finished with fine mortar for interior applications, which must be performed within the next 24-48 hours, depending on external temperature. If the application is performed outdoors, we recommend the finish BIK07 based on natural hydraulic lime. Alternatively, for colored finishes, it is possible to use high breathability products from the arteMURI line, such as those lime-based 5th CALCE 0.7÷1.8 mm, silicate-based SIL4 INTO 0.7÷2.5 mm or siloxane XIL2 INTO 0,7÷2.5 mm.

Fields of use

BI21 may be used for interior and exterior plastering on dry surfaces like brick, rough concrete, blocks and plaster-port network. Smooth concrete structures must first be rough coated with our RG12. BI21 should not be used on painted or inconsistent and brittle surfaces.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a level surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered by using a mixer pump with stator and rotor with the BI21 plaster from Fornaci Calce Grigolin, dry premix based on selected inerts, slaked and hydraulic lime-based binders, slaked lime and additives to improve workability and grip, at a rate of 14 kg/m² for a thickness of 1 cm applied. The most wide-spread use, as a binder, of the hydrated lime in the production of the plaster gives the end product a high water vapor permeability ($\mu=6$). The minimum application thickness will be 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|--|---|
| Specific weight | 1450 kg/m ³ determined in free fall |
| Maximum diameter | 2 mm |
| Pot life | 20 min. |
| Water in the mix | approx. 22% |
| Mechanical resistance to flexion at 28 days | 0,8 N/mm ² |
| Mechanical resistance to compression at 28 days (cat. CS II) | 2,0 N/mm ² |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Consumption | 14 kg/m ² per 1 cm layer |
| Water vapor permeability μ | 6 |
| Fire resistance | A1 class |
| Min. application thickness | 1,5 cm |
| Adhesion to brick | 0,5 N/mm ² |
| Fracture type | A |
| Water absorption | W0 |
| Thermal conductivity λ | 0,36 W/mK (tabulated value) |

Disclaimers

Do not mix BI21 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using BI21 when temperatures are below +5°C or above +30°C.



BI 21 FIBRATO

Bio-intonaco di fondo tradizionale a base di calce idraulica naturale NHL 3,5



Descrizione del prodotto

Premiscelato a secco a base di inerte selezionato, leganti a base di calce idraulica naturale NHL 3,5 e aerea a elevata purezza e basso contenuto di sali solubili, additivi specifici a elevata biodegradabilità e speciali fibre micronizzate ad elevata dispersione.

Fornitura e stoccaggio

BI 21 fibrato viene fornito sfuso con impianto silo da 22 m³ e in sacchi su pallet con estensibile. Stoccare in luogo fresco, asciutto e non ventilato. Mantenere integro l'imballo.

Preparazione supporti e modalità di applicazione

Superfici che presentano irregolarità superiori ai 2 cm devono essere preparate almeno 48 ore prima con un riempimento dello stesso BI 21 fibrato, evitando l'impiego di troppa acqua in fase di impasto che porterebbe a una diminuzione delle resistenze meccaniche. Per l'applicazione operare come segue:

dopo aver posizionato i paraspigoli, preferibilmente con lo stesso BI 21 fibrato, e regolato l'acqua d'impasto fino a ottenere una malta consistente e dall'aspetto plastico, si può passare all'applicazione operando a una distanza di circa 15-20 cm in modo da ottenere uno spessore di circa 1-2 cm per mano. Dopo alcuni minuti procedere alla livellatura con staggia di alluminio. A rassodamento avvenuto (circa 8 ore) operare la stringitura con frattazzo di legno o di plastica. Il prodotto così applicato si presta alla successiva finitura con malta fina, per applicazioni in interno, che deve essere eseguita entro le 24-48 ore successive a seconda delle condizioni termoigrometriche esterne. Se l'applicazione deve essere eseguita in esterno, si consiglia l'applicazione della finitura BIK 07, anch'essa a base di calce idraulica naturale NHL 3,5. In alternativa, per finiture colorate, possono essere impiegati prodotti della linea arteMURI ad elevata traspirabilità come quelli a base calce, 5th CALCE 0,7÷1,8 mm, ai silicati SIL4 INTO 0,7÷2,5 mm o silossanici XIL2 INTO 0,7÷2,5 mm.

Campi di impiego

BI 21 fibrato può essere utilizzato per intonacare interni ed esterni su supporti asciutti tipo laterizio, calcestruzzo ruvido, blocchi e rete porta intonaco. Strutture in calcestruzzo liscio devono essere preventivamente rinzaffate con il nostro RG 12. BI 21 fibrato non deve essere applicato su supporti verniciati o inconsistenti e friabili.

Voci di capitolato

I supporti da intonacare devono essere puliti, stabili, eventualmente inumiditi e devono presentare delle superfici omogenee. Ogni parte incoerente deve essere asportata o consolidata. Le superfici così preparate possono essere intonacate mediante macchina intonacatrice vite polmone con l'intonaco BI 21 fibrato di Fornaci Calce Grigolin, premiscelato a secco a base di inerte selezionato, leganti a base di calce idraulica naturale NHL 3,5, calce aerea, additivi specifici e speciali fibre micronizzate ad elevata dispersione per migliorare la lavorabilità e l'adesione, in ragione di 14 kg/m² per spessore di 1 cm applicato. L'impiego dell'inerte selezionato e della calce idraulica e idrata nel confezionamento di tale intonaco conferisce al manufatto finale un'elevata permeabilità al vapore acqueo ($\mu = 6$). Lo spessore minimo di applicazione sarà di 1,5 cm. L'impiego delle fibre lo rende particolarmente idoneo per impieghi di lavori di restauro.

Dati tecnici secondo norma UNI EN 998-1

| | |
|---|------------------------------------|
| Peso specifico | 1450 kg/m³ deter.in caduta libera |
| Diametro massimo | 2 mm |
| Tempo di lavorabilità su laterizio | 20 min. |
| Acqua d'impasto | 22% circa |
| Res. mecc. a flessione a 28 gg | 0,8 N/mm² |
| Res. mecc. a compress. a 28 gg (cat. CS II) | 2,0 N/mm² |
| Ritiro plastico | Ass. in condiz. termoigr. standard |
| Consumo teorico | 14 kg/m² per spessori 1 cm |
| Permeabilità al vapore acqueo μ | 6 |
| Reazione al fuoco | classe A1 |
| Spessore minimo di appl. | 1,5 cm |
| Adesione su laterizio | 0,5 N/mm² |
| Tipo di frattura | A |
| Assorbimento d'acqua | W0 |
| Conducibilità termica λ | 0,36 W/mK (valore tabulato) |

Avvertenze

Non mescolare BI 21 fibrato con altre sostanze. Evitare forti sbalzi termici nella fase di presa. Il prodotto va protetto dal gelo e dalla rapida essiccazione. Si consiglia di non utilizzare BI 21 fibrato con temperature inferiori a +5°C e superiori a +30°C.



BIK 21

Water-proof traditional bio base render, based on natural hydraulic lime



Product description

Dry premix based on selected inerts, binders based on high-purity slaked and hydraulic lime and low content of soluble salts and highly bio-degradable special additives.

Supply and Storage

BIK21 is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

Areas affected by irregularities greater than 2 cm should be prepared with at least 48 hours in advance with a filling of the same BIK21, avoiding the use of too much water during dough preparation, which might result in a decrease of mechanical strength. For the application, operate as follows: after having positioned the corners, preferably with the same BIK21, and having adjusted the water intake to obtain a consistent mortar of plastic appearance, it is possible to start working at a distance of about 15-20 cm in to obtain a thickness of about 1-2 cm per layer. After a few minutes, even off with the aluminum level. After curing (about 8 hours) finish with a wooden or plastic float. The product thus applied may be finished with fine mortar for interior applications, which must be performed within the next 24-48 hours, depending on external temperature. If the application is performed outdoors, we recommend the finish BIK07 based on natural hydraulic lime. Alternatively, for colored finishes, it is possible to use high breathability products from the arteMURI line, such as those lime-based 5th CALCE 0.7÷1.8 mm, silicate-based SIL4 INTO 0.7÷2.5 mm or siloxane XIL2 INTO 0,7÷2.5 mm.

Fields of use

BIK21 may be used for interior and exterior plastering on dry surfaces like brick, rough concrete, blocks and plaster-port network. Smooth concrete structures must first be rough coated with our RG12. BIK21 should not be used on painted or inconsistent and brittle surfaces.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a level surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered by using a mixer pump with stator and rotor with the BIK21 water-proof plaster from Fornaci Calce Grigolin, dry premix based on selected inerts, slaked and hydraulic lime-based binders, slaked lime and additives to improve workability and grip, at a rate of 14 kg/m² for a thickness of 1 cm applied. The most wide-spread use, as a binder, of the hydrated lime in the production of the plaster gives the end product a high water vapor permeability ($\mu=6$). The minimum application thickness will be 1.5 cm.

Technical data according to the UNI EN 998-1 Standard

| | |
|--|---|
| Specific weight | 1450 kg/m ³ determined in free fall |
| Maximum diameter | 2 mm |
| Pot life | 20 min. |
| Water in the mix | approx. 22% |
| Mechanical resistance to flexion at 28 days | 0,8 N/mm ² |
| Mechanical resistance to compression at 28 days (cat. CS II) | 2,0 N/mm ² |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Consumption | 14 kg/m ² per 1 cm layer |
| Water vapor permeability μ | 6 |
| Fire resistance | A1 class |
| Min. application thickness | 1,5 cm |
| Adhesion to brick | 0,5 N/mm ² |
| Fracture type | A |
| Water absorption | W0 |
| Thermal conductivity | 0,36 W/mK (tabulated value) |

Disclaimers

Do not mix BIK21 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using BIK21 when temperatures are below +5°C or above +30°C.



BI 07

Dry bio finish, based on natural hydraulic lime



Product description

Dry premix based on selected inerts, binders based on high-purity slaked and hydraulic lime and low content of soluble salts and highly bio-degradable special additives.

Supply and Storage

BI07 is supplied in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Preparation and Application

The surfaces must be level, uniform and humid. Before the application, remove any dust left over from "scraping" or scratch-ing.

For the application, operate as follows: verify that the surface is wet, or moisten if necessary. Prepare the dough by adding about 30 lt of water per 100 kg of dry product, mix well, avoiding an excessive incorporation of air. The dough thus prepared should be left to stand for about 15 minutes. Apply with the metallic spatula in the two or more passes, crossing the direction of application. The material thus applied may be finished with a plastic float to obtain the so-called "crushed finishing" or it may also be done with the sponge float, moistened if necessary, to obtain a surface free of joints and overlappings. Do not apply on overly seasoned plasters.

Fields of use

BI07 may be used as a finish on rough plasters (such as our own IG14, IG28,

FG12, BI21, etc.), always employing the "fresh on fresh" technique. BI07 should never be applied to gypsum, painted or crumbly and insubstantial surfaces. Do not apply on concrete and on surfaces that have irregularities larger than 3-4 mm. Avoid use on completely cured plasters.

Specifications

The plasters to be finished must have perfectly flat and homogeneous surfaces. The surfaces thus prepared may be finished with the BI07 fine dry mortar from Fornaci Calce Grigolin, dry premix based on selected inerts, natural hydraulic lime, slaked lime and special additives to improve workability and grip. The manual application will be performed with a metallic spatula by applying the material in two layers, crossing the direction of application, up to a thickness of no more than 3 mm, at a rate of 2-3 kg/m². Finish with a sponge float.

Technical data according to the UNI EN 998-1 Standard

| | |
|--|--|
| Specific weight | 1200 kg/m ³ determined in free fall |
| Maximum diameter | < 0,8 mm |
| Pot life | 20 min. |
| Water in the mix | approx. 30% |
| Mechanical resistance to flexion at 28 days | 1,0 N/mm ² |
| Mechanical resistance to compression at 28 days (cat. CS II) | 2,0 N/mm ² |
| Plastic withdrawal | Absent in standard thermohygro-metric conditions |
| Consumption | 2-3 kg/m ² |
| Water vapor permeability μ | 7 |
| Fire resistance | A1 class |
| Min. application thickness | 3 mm |
| Adhesion to brick | 0,5 N/mm ² |
| Fracture type | A |
| Water absorption | W0 |
| Thermal conductivity λ | 0.42 W/mK (tabulated value) |

Disclaimers

Do not mix BI07 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying (wind or direct sunlight). Avoid using BI07 when temperatures are below +5°C or above +30°C. BI07 should not be covered with low-breathable decorations or paints, because these might impede the carbonatation process and the eventual evaporation of the residual humidity in the substrate, which might lead to detachments or peelings of the finish itself.



BIK 07

Water-proof dry bio finish, based on natural hydraulic lime



Product description

Dry premix based on selected inerts, binders based on high-purity slaked and hydraulic lime and low content of soluble salts and highly bio-degradable special additives.

Supply and Storage

BIK07 is supplied in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The surfaces must be level, uniform and humid. Before the application, remove any dust left over from "scraping" or scratching.

For the application, operate as follows: verify that the surface is wet, or moisten if necessary. Prepare the dough by adding about 30 lt of water per 100 kg of dry product, mix well, avoiding an excessive incorporation of air. The dough thus prepared should be left to stand for about 15 minutes. Apply with the metallic spatula in the two or more passes, crossing the direction of application. The material thus applied may be finished with a plastic float to obtain the so-called "crushed finishing" or it may also be done with the sponge float, moistened if necessary, to obtain a surface free of joints and overlappings. Do not apply on overly seasoned plasters.

Fields of use

BIK07 may be used as a finish on rough plasters (such as our own IG14, IG28,

FG12, BI21, etc.), always employing the "fresh on fresh" technique. BIK07 should never be applied to gypsum, painted or crumbly and insubstantial surfaces. Do not apply on concrete and on surfaces that have irregularities larger than 3-4 mm. Avoid use on completely cured plasters.

Specifications

The plasters to be finished must have perfectly flat and homogeneous surfaces. The surfaces thus prepared may be finished with the BIK07 water-proof fine dry mortar from Fornaci Calce Grigolin, dry premix based on selected inerts, natural hydraulic lime, slaked lime and special additives to improve workability and grip.

The manual application will be performed with a metallic spatula by applying the material in two layers, crossing the direction of application, up to a thickness of no more than 3 mm, at a rate of 2-3 kg/m². Finish with a sponge float.

Technical data according to the UNI EN 998-1 Standard

| | |
|--|---|
| Specific weight | 1200 kg/m ³ determined in free fall |
| Maximum diameter | < 0,8 mm |
| Pot life | 20 min. |
| Water in the mix | approx. 30% |
| Mechanical resistance to flexion at 28 days | 1,0 N/mm ² |
| Mechanical resistance to compression at 28 days (cat. CS II) | 2,0 N/mm ² |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Consumption | 2-3 kg/m ² |
| Water vapor permeability μ | 7 |
| Fire resistance | A1 class |
| Min. application thickness | 3 mm |
| Adhesion to brick | 0,5 N/mm ² |
| Fracture type | A |
| Water absorption | W1 |
| Thermal conductivity λ | 0,42 W/mK (tabulated value) |

Disclaimers

Do not mix BIK07 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying (wind or direct sunlight). Avoid using BIK07 when temperatures are below +5°C or above +30°C. BIK07 should not be covered with low-breathable decorations or paints, because these might impede the carbonatation process and the eventual evaporation of the residual humidity in the substrate, which might lead to detachments or peelings of the finish itself.



RB 22

Bio-rough cast with hydraulic curing



Product description

Dry premix based on calcium-silicate inerts, specific hydraulic binders with low soluble salts content and additives aimed at improving workability and grip.

Supply and Storage

RB22 is supplied in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

Follow directions of the "Specifications"

Fields of use

RB22 is used as rough cast for interior and exterv surfaces like brick, block, etc. before the application of plaster based on slaked and hydraulic lime. It finds particular use in restoration work by homogenizing the surface to be plastered with plasters like our own BI21, BIK21, BI19, and so on. The application must be performed on surfaces free of dust, efflorescence, oils, fats.

RB22 should not be applied to gypsum, inconsistent and brittle surfaces and on concrete surfaces. The application must be made, in a covering manner and should not be made in the presence of surfacing moisture, efflorescence and in all applications which require the use of a masonry recovery and dehumidification cycle.

Specifications

The surfaces to be plastered should be clean and stable, particularly absorbent surfaces should be soaked thoroughly several hours before application. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be rough cast manually or by mixer pump with stator and rotor with RB22 from Fornaci Calce Grigolin, dry premix based on calcium-silicate inerts, specific hydraulic binders with low soluble salts content and special additives aimed at improving workability and grip, at a rate of 7-8 kg/m².

The product must cover the surface in a uniform and complete manner, with a thickness of 4-5 mm. The surface must not be subsequently smoothed.

Technical data according to the UNI EN 998-1 Standard

| | |
|--|--|
| Specific weight | 1600 kg/m ³ determined in free fall |
| Maximum diameter | 2,5 mm |
| Pot life | 2 h |
| Water in the mix | approx. 19% |
| Mechanical resistance to flexion at 28 days | 2,5 N/mm ² |
| Mechanical resistance to compression at 28 days (cat. CS II) | 5 N/mm ² |
| Consumption | 7-8 kg/m ² |
| Water vapor permeability μ | 9 |
| Fire resistance | A1 class |
| Adhesion to brick | 1,0 N/mm ² |
| Fracture type | A |
| Water absorbtion | W1 |
| Thermal conductivity λ | 0.40 W/mK (tabulated value) |

Disclaimers

Do not mix RB22 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using RB22 when temperatures are below +5°C or above +30°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



AB 09 RASOCAL

Multi-purpose bio-skim plaster, powder, based on natural hydraulic lime



Product description

Dry premix skim plaster based on selected inerts, binders based on high-purity slaked and hydraulic lime and low content of soluble salts and highly bio-degradable special additives.

Supply and Storage

AB 09 RASOCAL is supplied in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The surfaces must be free from dust and dirt. Any traces of oils, fats, waxes, etc. must be removed first, as well as any loose or brittle parts. Prepare the dough by adding about 7 liters of clean water for every 25 kg. bag of AB09 RASOCAL, and mix by hand or with mechanical stirrer to obtain a homogeneous mixture free of lumps. The dough thus obtained has a pot life of approx. 6 hours. After being allowed to stand for about 10 minutes, stir again and apply as usual with a metallic spatula with a thickness of 2-3 mm per coat. Any finishing of a second coat, applied when the first is perfectly cured, 24 hours later, must be performed while the material is still in the plastic stage by moistening and then working with the sponge float to obtain fine finish. Before finishing (with wall coating of the arteMURI line) wait at least 5 days.

Fields of use

AB 09 RASOCAL is a premixed skim plaster used to level plaster surfaces that

have imperfections. It is particularly useful in restoration work or in combination with the plasters of the BIO-CONSTRUCTION line. It is also used as a finish for plasters which are support for smooth finishes, or for covering reinforcement meshes. AB09 RASOCAL can be used for applications on thermal insulation plasters (like our own HYDROTHERM and FIBRE THERM) before applying the finish; this intervention must be carried out on properly seasoned thermal insulation plasters (1 week per cm. of applied thickness).

Specifications

The plasters (biological or not) will be levelled with the multi-purpose powder skim plaster AB09 RASOCAL from Fornaci Calce Grigolin, based on selected inerts, binders based on high-purity slaked and hydraulic lime and low content of soluble salts and highly bio-degradable special additives. If used as a fine finishing, it is recommended the application in two coats, by letting pass between one coat and the other at least 24 hours.

Technical data according to the UNI EN 998-1 Standard

| | |
|--------------------------------------|--|
| Specific weight | 1300 kg/m ³ determined in free fall |
| Maximum diameter | < 0,8 mm |
| Application thickness | 2-3 mm. per coat |
| Pot life | > approx. 6 h |
| Water in the mix | approx. 28% |
| Mechanical resistance to compression | cat. CS III |
| Consumption | 3-4 kg/m ² |
| Water vapor permeability μ | 9 |
| Fire resistance | A1 class |
| Adhesion to brick | 0,8 N/mm ² |
| Fracture type | A |
| Water absorption | W1 |
| Thermal conductivity λ | 0.38 W/mK (tabulated value) |

Disclaimers

Do not mix AB09 RASOCAL with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using AB09 RASOCAL when temperatures are below +5°C or above +30°C. When applying on thick plasters or on thermal insulation plasters, check for curing degree first.



palladio restoration

PALLADIO RINZAFFO

Sulphate-resistant repair rough cast based on slaked lime and pozzolanic binders



Product description

PALLADIO RINZAFFO is a dry premix skim plaster based on selected pozzolanic binders, slaked lime, limestone aggregates and special additives.

Supply and Storage

PALLADIO RINZAFFO is supplied in special 25 kg. bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

Before applying PALLADIO RINZAFFO, clean and saturate the surface by washing it with low pressure. Remove any efflorescence and salt concretions through washing or mechanical means (brushing, sand-blasting, water-blasting) and remove the salt residues from the base of the wall. Mix 24 liters of water with 100 kg of dry product (about 6 liters per 25 kg bag) in the drum, with a power drill or plastering machine to obtain a homogeneous mixture free of lumps (5 to 10 min) of a slightly creamy consistency. In the case of mixing drum or power drill, you should mix the dust with part of the intended water quantity and, after a few minutes, add the remaining water until it reaches the desired consistency. Do not mix by hand. PALLADIO RINZAFFO may be applied by hand or sprayed with the plastering machine. In the case of sufficiently cohesive substrates, we recommend performing an „open“ rough cast manually applied to facilitate moisture transpiration. In the case of poor masonry, we recommend performing a „covering“ rough cast in thickness between 3 and 5 mm.

Fields of use

PALLADIO RINZAFFO, mixed with water, leads to a mortar of plastic-fluid consistency to be applied, in thicknesses ranging from 3 to 5 mm., as grip layer for the PALLADIO Dehumidifying system. PALLADIO RINZAFFO can be applied either by hand or with plastering machine on interior or exterior walls like brick, stone, gravel or tuff, subject to rising capillary moisture and salts which may be sulphated. PALLADIO RINZAFFO, as part of PALLADIO Dehumidifying system, is particularly suitable for the restoration and reconstruction of the plaster of the buildings of historical and monumental interest, which require the use of cement-free systems and where there is a frequent presence of aggressive salts of sulphated nature. PALLADIO RINZAFFO ensures excellent grip of the PALLADIO Dehumidifying system on the substrate and, at the same time, it provides excellent breathability for the moisture in the masonry.

Technical data according to the UNI EN 998-1 Standard

| | |
|--|---|
| Specific weight | 1300 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Application thickness | 3-5 mm. per coat |
| Pot life | 2 h |
| Water in the mix | approx. 24% |
| Resistance to flexion at 28 days | 1,5 N/mm ² |
| Mechanical resistance to compression (Cat. CS III) | 4 N/mm ² |
| Consumption | variable depending on coverage (1-1,2 kg./m ² per mm. thickness) |
| Water vapor permeability μ | 10 |
| Fire resistance | A1 class |
| Adhesion to brick | > 0,25 N/mm ² |
| Fracture type | A |
| Resistance to sulphates | samples intact after 1 month immersed in sulphatic solution |
| Thermal conductivity λ | 0.50 W/mK (tabulated value) |
| Absorption vody | W1 |

Disclaimers

Apply PALLADIO RINZAFFO at temperatures between +5°C and +30°C; if temperatures are relatively low (5°C to 10°C) it is advisable to mix the material with warm water (30°C to 40°C). In summer, avoid the application on surfaces directly exposed to solar radiation and, if necessary, moisten before applying the subsequent layers of PALLADIO Dehumidifying system.



palladio restoration

PALLADIO POROSO

**Sulphate-resistant, macroporous
plaster, based on slaked lime and
pozzolanic agents**



Base plaster according to
WTA norms



Product description

PALLADIO POROSO is a dry premix based on selected pozzolanic binders, slaked lime, limestone aggregates and special additives.

Supply and Storage

PALLADIO POROSO is supplied in special 25 kg. bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

Skim plaster the surface with PALLADIO RINZAFFO, wait at least 12 hours, but no longer than 48, then saturate the surface with water at low pressure, then proceed with the application of PALLADIO POROSO. Mix 20 liters of water with 100 kg of dry product (about 5 liters per 25 kg bag) with a concrete mixer, power drill at low revs or plastering machine fitted with the standard mixer but with the help of a "turbo", "rotorquill" mixer or similar. It is imperative to use of a D8/1,5 type lung. In order to ensure the proper development of the product's porosity, we do not recommend mixing by hand. If you use the drill, lengthen mixing time until the mixture is homogeneous, free of lumps and has a soft and plastic texture.

Apply PALLADIO POROSO by hand or with a plastering machine, with a thickness between 10 and 30 mm., depending on the amount of salts present in the walls (higher salt content => greater thickness). For thicknesses greater than 20 mm., apply in 2 coats, about 60 minutes among each other. In the case of manual application, do not wait more than 20 minutes between the mixing of the product and its application.

Fields of use

PALLADIO POROSO mixed with water allows for the obtaining of a hydraulic curing mortar with a plastic consistency, to be applied in thicknesses ranging from 10 to 30 mm. Its highly porous structure captures the moisture in the masonry and promotes the disposal by evaporation through successive layers of the PALLADIO Dehumidifying system. It also acts as a deposit of salts possibly transported by rising moisture by avoiding the formation of efflorescence on the surface. PALLADIO POROSO can be applied by hand or by plastering machine on interior and exterior walls like brick, stone, gravel or tuff (after the application of PALLADIO RINZAFFO) subject to rising capillary moisture and sulphated salts. As part of the PALLADIO Dehumidifying system, it is particularly suitable for the restoration and reconstruction of the plaster of the buildings of historical and monumental interest, which require the use of cement-free systems and where there is a frequent presence of aggressive salts of sulphated nature.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1300 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Plastic withdrawal | Absent in standard thermohygro-metric conditions |
| Application thickness | 10-30 mm |
| Pot life | 20-30 min |
| Water in the mix | approx. 20% |
| Resistance to com flexion pression at 28 days | 0,6 N/mm ² |
| Mechanical resistance to compression (Cat. CS II) | 2,0 N/mm ² |
| Air content | > 30% |
| Total porosity | > 45% |
| Capillary absorbtion C after 24 h. | > 1 kg/m ² |
| Consumption | 11 kg./m ² per cm. thickness |
| Water vapor permeability μ | 7 |
| Fire resistance | A1 class |
| Adhesion to brick | 0,25 N/mm ² |
| Fracture type | A |
| Rezistance to sulphates | samples intact after 1 month immersed in sulphatic solution |
| Thermal conductivity λ | 0.40 W/mK (tabulated value) |

Disclaimers

Apply PALLADIO POROSO at temperatures between +5°C to +30°C. In case of low temperatures (5°C to 10°C), it is appropriate to mix the material with warm water (30°C to 40°C). In summer, avoid the application on surfaces directly exposed to solar radiation and, if necessary, make a moist curing before application of subsequent layers of PALLADIO Dehumidifying system.



The data reported refers to Q.C. tests conducted in standard environmental conditions. Practical applications on construction sites may detect significantly changed data, depending on the operating conditions, so the information in the technical description is only indicative because the user must always check its suitability for the intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A reserves the right to make technical changes of any kind without prior notice. Because of chemical and physical variables that affect the operating principle (saline saturation of macropores), it is not possible to predict the durability of the curing effect over time.

PALLADIO RISANA

Sulphate-resistant, waterproof, breathable plaster, based on slaked lime and pozzolanic binders



Restoration plaster according to WTA norms



Product description

PALLADIO RISANA is a dry premix based on selected pozzolanic binders, slaked lime, limestone aggregates and special lightweight and water-proofing additives.

Supply and Storage

PALLADIO RISANA is supplied in special 25 kg. bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

Apply PALLADIO RISANA over an appropriate layer of PALLADIO POROSO or, in the case of low concentrations of salts in rising moisture, directly on the layer of PALLADIO RINZAFFO. Wait at least 7 days between application of PALLADIO POROSO (or RINZAFFO) and the application of PALLADIO RISANA. Mix 21 liters of water with 100 kg of dry product (about 5.2 liters per 25 kg bag) with a concrete mixer, power drill at low revs or plastering machine fitted with the standard mixer but with the help of a "turbo", "rotorquill" mixer or similar. It is imperative to use of a D8/1,5 type lung. In order to ensure the proper development of the product's porosity, we do not recommend mixing by hand. If you use the drill, lengthen mixing time until the mixture is homogeneous, free of lumps and has a soft and plastic texture. If necessary, saturate the surface with water at low pressure, then apply PALLADIO RISANA by hand or by machine with a thickness between 10 and 30 mm. In the case where PALLADIO POROSO is missing, apply with thicknesses between 20 and 30 mm. For thicknesses greater than 20 mm., run the application in 2 hands to about 60 minutes of each other. In the case of manual applica-

tion, do not wait more than 20 minutes between the mixing of the product and its application.

Fields of use

PALLADIO RISANA, mixed with water, allows for the obtaining of a hydraulic curing mortar with a plastic consistency, to be applied in thicknesses ranging from 10 to 30 mm. Its highly porous structure captures the moisture drained from the underlying layer of PALLADIO POROSO. Its strong water repellence prevents moisture from passing into a liquid form, and thus from carrying in the successive layers, any contained salts, while avoiding the formation of salt efflorescence on the surface. PALLADIO RISANA can be applied by hand or by plastering machine on interior and exterior walls like brick, stone, gravel or tuff (after the application of PALLADIO RINZAFFO) subject to rising capillary moisture and sulphated salts. As part of the PALLADIO Dehumidifying system, it is particularly suitable for the restoration and reconstruction of the plaster of the buildings of historical and monumental interest, which require the use of cement-free systems and where there is a frequent presence of aggressive salts of sulphated nature.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1300 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Application thickness | 10-30 mm |
| Pot life | 20-30 min |
| Water in the mix | approx. 21 % |
| Resistance to flexion at 28 days | 0,6 N/mm ² |
| Mechanical resistance to compression (Cat. CS II) | 2,0 N/mm ² |
| Air content | > 25% |
| Total porosity | > 40% |
| Capillary absorption C after 24 h. | > 1 kg/m ² |
| Consumption | 12 kg./m ² per cm. thickness |
| Water vapor permeability μ | 8 |
| Fire resistance | A1 class |
| Adhesion to brick | > 0,2 N/mm ² |
| Fracture type | A |
| Resistance to sulphates | samples intact after 1 month immersed in sulphatic solution |
| Thermal conductivity λ | 0.5 W/mK (tabulated value) |

Disclaimers

Apply PALLADIO RISANA at temperatures between +5°C to +30°C. In case of low temperatures (5°C to 10°C), it is appropriate to mix the material with warm water (30°C to 40°C). In summer, avoid the application on surfaces directly exposed to solar radiation and, if necessary, make a moist curing before application of subsequent layers of PALLADIO Dehumidifying system.



palladio restoration

PALLADIO TONACHINO

Sulphate-resistant, breathable fine finish, based on slaked lime and pozzolanic binders



Product description

PALLADIO TONACHINO is a dry premix based on selected pozzolanic binders, slaked lime, limestone aggregates and special water-proofing additives.

Supply and Storage

PALLADIO TONACHINO is supplied in special 25 kg. bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

PALLADIO TONACHINO Apply PALLADIO TONACHINO over an appropriate layer of PALLADIO RISANA, laid at least 3 weeks earlier.

Mix 26 liters of water with 100 kg of dry product (about 6.5 liters per 25 kg bag) with a concrete mixer, power drill at low revs or plastering machine until the mixture is homogeneous, free of lumps and has a soft and plastic texture (5-10 min.). In the case of mixing drum or power drill, you should mix the dust with part of the intended water quantity and, after a few minutes, add the remaining water until it reaches the desired consistency. Do not mix by hand.

If necessary, saturate the surface with water at low pressure, then apply PALLADIO TONACHINO with a metallic spatula in two or more passes, crossing the direction of application, until reaching a thickness not greater than 3 mm. The last layers should be applied after the previous one has fully cured (approx. 6-8 hrs., depending on environmental conditions and substrate absorption). Finish with a sponge float until reaching a fine finish, humidifying it if necessary.

Fields of use

PALLADIO TONACHINO, mixed with water, allows for the obtaining of a hydraulic curing mortar with a plastic consistency, to be used as finish for the PALLADIO Dehumidifying system. Once the hardening has occurred, PALLADIO FINISH becomes a clear color similar to that of ancient mortars based on hydraulic lime. The hydraulic curing of pozzolanic binders used provides considerable durability against the run-off of rainwater for the finishings done with PALLADIO TONACHINO.

Its strong water repellence prevents moisture from passing into a liquid form, and thus from carrying in the successive layers, any contained salts, while avoiding the formation of salt efflorescence on the surface.

As part of the PALLADIO Dehumidifying system, PALLADIO TONACHINO is particularly suitable for the restoration and reconstruction of the plaster of the buildings of historical and monumental interest, which require the use of cement-free systems and where there is a frequent presence of aggressive salts of sulphated nature.

Technical data according to the UNI EN 998-1 Standard

| | |
|--|---|
| Specific weight | 1200 kg/m ³ determined in free fall |
| Maximum diameter | 0,6 mm |
| Plastické smrštění | není ve standardních tepel. hydrol. podm. |
| Application thickness | 3 mm |
| Pot life | 2 h |
| Water in the mix | approx. 26% |
| Resistance to flexion at 28 days | 1,8 N/mm ² |
| Mechanical resistance to compression (Cat. CS III) | 5 N/mm ² |
| Consumption | 1.3 kg./m ² per mm. thickness |
| Water absorption | W1 |
| Water vapor permeability μ | 10 |
| Fire resistance | A1 class |
| Adhesion to brick | 0,3 N/mm ² |
| Fracture type | A |
| Resistance to sulphates | samples intact after 1 month immersed in sulphatic solution |
| Thermal conductivity λ | 0.70 W/mK (tabulated value) |

Disclaimers

Apply PALLADIO TONACHINO at temperatures between +5°C to +30°C. In case of low temperatures (5°C to 10°C), it is appropriate to mix the material with warm water (30°C to 40°C). In summer, avoid the application on surfaces directly exposed to solar radiation and, if necessary, make a moist curing for a few days after application.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



INIEZIONE

Binder for masonry injections,
based on hydrated lime



Product description

PALLADIO INIEZIONE is a premixed binder with compensated withdrawal based on hydrated lime, pozzolanic charges and added minerals.

Supply and Storage

PALLADIO INIEZIONE is supplied in special 20 kg. bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

Before starting the injection, seal the cracks, if any, that may represent exit points for the product applied under pressure, and then carry out a series of holes (typically smaller than 40 mm.) positioned in such a way as to define a geometrically homogeneous distribution on the wall. The distance between the holes will depend on the type of action defined. Fully insert the injection cannulae, to be properly sealed, which will be positioned within the nozzle. Mix approx. 40 liters of water with 100 kg of product (approx. 8.5 liters per 20 kg bag) in drum or similar (do not use mortar mixers or continuously mixing machines) for 5 to 10 min., to obtain an extremely fluid, homogeneous slurry with an emptying time, Marsh cone test, less than 50 seconds. To promote optimal mixing, it is recommended to place 4/5 of the water in the mixer, add the powder, stir for a few minutes and after it has reached a plastic consistency, add the remaining water until the product becomes fluid. Do not mix by hand.

Apply PALLADIO INIEZIONE by injection or casting. The injection should occur at low pressure, from the series of holes at the base of the masonry. When the injected slurry in excess exits from the holes above of those used, seal them and proceed with the injection into holes on the higher level and so on, until the reaching of the highest holes. To facilitate the flow of the product inside the building, it is advisable to wash the cavity with water (always in low pressure) before injecting the PALLADIO INIEZIONE.

Fields of use

PALLADIO INIEZIONE, mixed with water, leads to a hyper-liquid slurry destined to the restoration/consolidation of buildings of historical and architectural interest, which require the use of special cement-free binders. PALLADIO INIEZIONE demands the application by low pressure injection or by casting. Should it be made by injection, insert the injection cannulae directly into the wall at regular intervals, to be placed according to the type of product and intervention to be performed. The advantages of PALLADIO INIEZIONE are:

- easy filling of the cracks and the porosities of the item to be restored;
- no chemical interaction with the elements constituting the original artefact;
- compensation of the withdrawal phenomenon;
- homogeneous and monolithic restoration with the original surface;
- absence of the bleeding and segregation phenomenon.

PALLADIO INIEZIONE was specifically designed to be injected, because of its hyperfluid consistency and its fine particle size, directly into the wall ensuring a very effective filling of the item itself and its consolidation. It has good mechanical performances which, combined with its elastic module, similar to that of the original structure (8,000-15,000 N/mm²), enable it to form a homogeneous combination with the artefact, from a deformational point of view.

Technical data according to the UNI EN 998-1 Standard

| | |
|--|---------------------------------|
| Consistency (emptying time of Marsh cone) | < 50 sec |
| Resistance to flexion at 28 days UNI EN 196/1 | > 2 N/mm ² |
| Mechanical resistance to compression at 28 days UNI EN 196/1 | > 10 N/mm ² |
| Sulphate penetration through X-ray diffraction | not measurable |
| Elastic module at 28 days UNI 6556 | 13.000 ±1.000 N/mm ² |
| Adhesion to substrate in UNI EN 1542 class | > 0,5 N/mm ² |
| Bleeding | absent |
| Consumption | 1.200 kg/m ³ |

Disclaimers

Apply PALLADIO INIEZIONE at temperatures between +5°C to +30°C. In case of low temperatures (5°C to 10°C), it is appropriate to mix the material with warm water (30°C to 40°C). Conversely, if it is too warm, mix with cold water.



INTONACO FORTE

Sulphate-resistant plaster, based on slaked lime and pozzolanic binders



Product description

PALLADIO INTONACO FORTE is a dry premix based on selected pozzolanic binders, slaked lime, limestone aggregates and special additives.

Supply and Storage

PALLADIO INTONACO FORTE is supplied in special 25 kg. bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

Clean and saturate the support by washing it with water at low pressure. Remove any efflorescence and salt concretions by washing or mechanical (brushing, sand-blasting, water-blasting) and remove the salt residues from the base of wall. If you use the technique of reinforced plate, position the network at least 1 cm above the support by using appropriate spacers and fill with a layer of concrete cover of no less than 2 cm. Mix 22 liters of water with 100 kg of product (about 5-6 liters per 25 kg bag) with concrete mixer, with a power drill or plastering machine until obtaining a homogeneous, plastic mortar, free of lumps (5 to 10 min.) with a slightly creamy texture. In the case of mixing in a drum or with a drill, mix the dust with one part of the intended water quantity and, after a few minutes, add the remaining water to achieve the desired fluidity. We do not recommend mixing by hand. Apply PALLADIO INTONACO FORTE by hand or spray it with plastering machine. In the case of an irregular background, in order to ensure maximum adhesion, perform a "covering" rough cast with the same INTONACO FORTE with a variable thickness, between 3 and 5 mm., and then apply the plaster in multiple layers (each layer, no more than 1-1.5 cm., should be applied when the underlying one is fully hardened), until desired thickness is achieved (<5 cm). When the mortar has reached the condition known as "out of touch", finish with a sponge float. The

correct implementation of the finishing contrasts the formation of cracks owed to plastic withdrawal: if possible, use a system for curing of the product in the first few days following application (cover it with nylon sheets, etc.).

Fields of use

PALLADIO INTONACO FORTE, mixed with water, allows for the obtaining of a mortar with plastic consistency to be applied in varying thicknesses up to 5 cm for consolidation operations of masonry of buildings of historical and architectural interest. With a compression strength of 12 N/mm², PALLADIO INTONACO FORTE can be used in the implementation of interventions by using the "reinforced slab" technique, i.e. involving the placement of a galvanized or stainless steel mesh in the wall to be consolidated. PALLADIO INTONACO FORTE can be applied by hand or it can be sprayed with a plastering machine onto interior or exterior walls made of brick, stone, gravel or tuff, even in the presence of salts. The absence of cementitious binder ensures full compatibility with any wall on which you want to intervene. PALLADIO INTONACO FORTE, besides ensuring above average mechanical performances, has a remarkable grip to the surface, managing to combine the characteristics of a cementitious system to those of a pozzolanic lime system, known to be the most suitable to meet the needs of operations on historical architecture buildings.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|---|
| Specific weight | 1550 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Water in the mix | approx. 20% |
| Resistance to flexion at 28 days | 4,0 N/mm ² |
| Mechanical resistance to compression (Cat. CS IV) | 12 N/mm ² |
| Consumption | 1.3 kg./m ² per cm. thickness |
| Water vapor permeability μ | 15 |
| Fire resistance | A1 class |
| Adhesion to brick | 0,5 N/mm ² |
| Resistance to sulphates | samples intact after 1 month immersed in sulphatic solution |
| Water absorption | W0 |
| Fracture type | A |
| Thermal conductivity λ | 0,98 W/mK |

Disclaimers

Apply PALLADIO INTONACO FORTE at temperatures between +5°C to +30°C. In case of low temperatures (5°C to 10°C), it is appropriate to mix the material with warm water (30°C to 40°C).



palladio restoration

PALLADIO INTONACO COCCIOPESTO

Bio-plaster based on natural hydraulic binder



Product description

Dry premix based on slaked lime, natural hydraulic lime and selected sands.

Supply and Storage

INTONACO COCCIOPESTO is supplied in bags. Store in a cool, dry and away from rain, humidity and heat sources. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surfaces to be plastered must be clean and free from efflorescence salt and/or other debris. Dust, grease and various aggressive elements must be completely removed from the surface. Concrete surfaces must be smoothened or rough cast with a suitable mixture. INTONACO COCCIOPESTO may be applied with a plastering machine or by hand, with a thickness of 20 mm per layer. Greater thicknesses should be applied in multiple layers with a reinforcement mesh.

Fields of use

INTONACO COCCIOPESTO may be used for plastering interior and exterior surfaces like brick, stone and/or mixed, however, as basic raw plaster. It is indicated both in new constructions as well as in renovation and restructuring. For applications on surfaces other than those listed above, contact our Technical Department.

Technical data

| | |
|----------------------------------|---|
| Specific dry weight | 1300 kg/m ³ |
| Maximum diameter | approx. 3 mm. |
| approx. 3 mm. | > 2,5 MPa |
| Resistance to flexion at 28 days | 1,5 MPa |
| Consumption | 13 kg./m ² per cm. thickness |
| Water vapor permeability μ | 9 |

Disclaimers

Do not mix INTONACO COCCIOPESTO with other substances. The product must be protected from frost and rapid drying. Avoid using the product when temperatures are below +5°C or above +25°C.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



palladio restoration

PALLADIO TONACHINO COCCIOPESTO

Lime finish based on natural hydraulic lime



Product description

PALLADIO TONACHINO COCCIOPESTO is a dry premix based on slaked lime, natural hydraulic lime and marble inerts.

Supply and Storage

PALLADIO TONACHINO COCCIOPESTO is supplied in special 25 kg. bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The substrate should be well moistened and free from dust, grease and efflorescence. Mix TONACHINO COCCIOPESTO with clean water in mixer or with the power drill to obtain a fluid mixture, homogenous and free of lumps. The way of application varies depending on the desired effect:

- for a "rustic" effect, spread the dough with the steel float, with a thickness of 1-2 mm. When the layer begins to dry, moisten with a brush and finish with a sponge float to produce a grainy surface;
- for a "orange peel" effect, spread the dough with the steel float, with a thickness of about 2 mm. When the layer begins to harden, sprinkle lightly with

the brush and finish with a wooden float until you get a scratched surface;
- for a "smoothing" effect (or marbled): spread the dough with the steel float, with a thickness of about 2 mm. As soon as the layer begins to harden, dampen slightly and pass vigorously over the surface with the float to make it smooth.

Fields of use

PALLADIO TONACHINO COCCIOPESTO may be used as a coating or breathable interior and outdoor finish, with a rustic or smoothed effect, on cocciopesto plaster. It may also be used as a colored coating for traditional or premixed plasters (in this case, test the product on the areas of application).

Technical data

| | |
|--------------------------------|--|
| Specific weight | 1250 kg/m ³ determined in free fall |
| Maximum diameter | 1 mm |
| Max. application thickness | 1-2 mm. per layer |
| Consumption | 1.3 kg./m ² per mm. thickness |
| Water vapor permeability μ | 10 |

Disclaimers

Do not mix PALLADIO TONACHINO COCCIOPESTO with other substances. The product must be protected from frost and rapid drying. Avoid using the product when temperatures are below +5°C or above +25°C.





mortar del piave

The double-bag Mortar del Piave line has been specially developed by Fornaci Calce Grigolin to give industry professionals a range of ready-to-use, quality products. For each product of this line, the most appropriate inert is used and, thanks to the use of siliceous products of natural origin, high mechanical characteristics and performances are achieved.

Mortar del Piave products are packed in double compartment polyethylene bags, where the binder is divided from the inerts to allow easy movement on the construction site, an improved cleanliness of the work area and a constant keeping of the product characteristics.



mortar del piave

MALTA BASTARDA

Bastarda mortar, traditional type



Product description

Pre-dosed bastarda mortar based on inerts, hydrated lime, hydraulic binder, eminently hydraulic lime and special additives.

Supply and Storage

BASTARDA MORTAR is supplied in polyethylene bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. When temperatures are high, it is advisable to wet out the brick before laying. For the application, operate as follows: Prepare the dough by adding about 9-12 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (avoid a prolonged mixing duration). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item.

Fields of use

BASTARDA MORTAR is a masonry mortar that is used on all types of exterior and interior walls. Due to its high mechanical strength, it is suitable for load-bearing walls.

Specifications

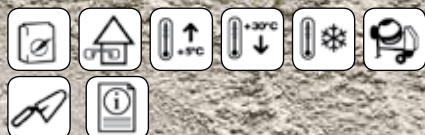
The elements used for the elevation of the walls, both internal and external, type hollow bricks, concrete blocks, etc. must be carefully enticed with the pre-dosed mortar BASTARDA MORTAR from Fornaci Calce Grigolin, based on selected inerts, aerial and hydraulic binders and special additives to improve workability and grip, to be mixed only with water until it reaches optimum consistency. The mortar thus prepared presents, after 28 days, a resistance superior to 7 N/mm².

Technical data according to the UNI EN 998-2 Standard

| | |
|---|--|
| Maximum diameter | 4 mm |
| Pot life | 2 h |
| Water in the mix | 9-12 % |
| Min. application thickness | 0,5 cm |
| Mechanical resistance to flexion at 28 days | > 3 N/mm ² |
| Mechanical resistance to compression at 28 days | > 7 N/mm ² |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Chloride content | < 0,01% |
| Fire resistance | A1 class |
| Thermal conductivity λ | 1,12 W/mK (tabulated value) |

Disclaimers

Do not mix BASTARDA MORTAR with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using BASTARDA MORTAR when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.



mortar del piave

MALTA FACCIAVISTA

Water-repellent mortar for masonry with exposed concrete



Product description

Pre-dosed mortar, based on selected natural inerts, hydrated lime, hydraulic binder, water-repelling agent and special additives.

Supply and Storage

FACCIAVISTA MORTAR is supplied in polyethylene bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. In order to minimize the efflorescence phenomenon, the bricks should be soaked in water for several hours before laying, thus saturating the pores, and use in half an hour after removal from water. Pores saturation limits to the maximum the contact between the substances present in the bricks and the mortar, which give birth to compounds that constitute the basis for the efflorescence phenomenon.

For the application, operate as follows: Prepare the dough by adding about 12-15 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (avoid a prolonged mixing duration). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item. Once the plastic phase is finished, proceed to fix the joints with the appropriate iron.

Fields of use

FACCIAVISTA MORTAR is a mortar for masonry with exposed concrete, interior or exterior, to be used with bricks, vibrated cement and expanded clay blocks. The low particle size allows for a perfect styling of the joints.

Specifications

The elements used for the elevation of the walls, both internal and external, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar FACCIAVISTA MORTAR from Fornaci Calce Grigolin, based on selected natural inerts, aerial and hydraulic binders and special additives to improve workability and grip and waterproofing agent to increase water repellence, to be mixed only with water until it reaches optimum consistency. The mortar thus prepared presents, after 28 days, a compression resistance superior to 6 N/mm².

Technical data according to the UNI EN 998-2 Standard

| | |
|---|--|
| Maximum diameter | 1 mm |
| Pot life | 2 h |
| Water in the mix | 12-15 % |
| Min. application thickness | 0,5-2 cm |
| Mechanical resistance to flexion at 28 days | > 2,5 N/mm ² |
| Mechanical resistance to compression at 28 days | > 6 N/mm ² |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Chloride content | < 0,01% |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0,80 N/mm ² (tabulated value) |

Disclaimers

Do not mix FACCIAVISTA MORTAR with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using FACCIAVISTA MORTAR when temperatures are below +5°C or above +30°C. Wet surface before application.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



mortar del piave

BETONCINO

High-resistance, traditional grout



Product description

Pre-dosed grout, based on inerts selected in an adequately reconstructed grading curve from 0 to 4 mm, hydraulic binder, hydrated lime and special additives.

Supply and Storage

BETONCINO is supplied in polyethylene bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The areas affected by irregularities greater than 2 cm should be prepared with at least 48 hours in advance, with a filling of the same BETONCINO, avoiding the use of too much water during dough preparation, as this might lead to a decrease in mechanical strength. Prepare the dough by adding about 12-15 liters of water per 100 kg of product. Stir in mixer and add water if necessary to achieve optimal consistency. After having placed the guides, preferably with the same BETONCINO, start working by applying the product up to a thickness of about 1.5 cm per layer, with a time interval of 24-48 hours inbetween layers. After a few minutes, even off with the aluminum level. Given the high mechanical strength and fields of use of the BETONCINO, it is recommended that, before applying any finish work or coating, to allow the product to fully cure.

Fields of use

BETONCINO is a product used for manual applications, that may be ap-

plied onto interior and exterior surfaces like bricks, rough concrete, blocks and plaster port network and in all cases in which walls require the use of high-thickness reinforced plasters. Because its high mechanical strength, it is used as structural plaster. It should not be applied onto gypsum, painted or crumbly and insubstantial surfaces. It may also be used as masonry mortar, where particular mechanical strength is required and in consolidation work and restoration in general.

Specifications

The surfaces to be plastered must be clean, stable, eventually humidified and must have a level surface. Each inconsistent part must be removed or consolidated. The surfaces thus prepared may be plastered with BETONCINO from Fornaci Calce Grigolin, based on selected inerts, hydraulic binders and special additives to improve workability. For use in reinforced plaster with arc-welded mesh, port-plaster or other types of reinforcement, this mesh must be embedded in the last layer of plaster.

Technical data according to the UNI EN 998-1 Standard

| | |
|---|---|
| Maximum diameter | 4 mm. |
| Plastic withdrawal | Absent in standard thermohygrometric conditions |
| Water in the mix | approx. 18% |
| Min. application thickness | 1,5 cm. |
| Consumption | 19 kg/m ² for 1 cm. thickness |
| Mechanical resistance to flexion at 28 days | > 4,5 N/mm ² |
| Mechanical resistance to compression at 28 days | > 12 N/mm ² |
| Water vapor permeability μ | 14 |
| Water absorption | W0 |
| Adhesion to brick | 1,1 N/mm ² |
| Fracture type (FP) | A |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.90 W/mK (tabulated value) |

Disclaimers

Do not mix BETONCINO with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using GROUT when temperatures are below +5°C or above +30°C. For extended surfaces we recommend the implementation of joint separation. Any finish or coating should be done by well-seasoned product.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



mortar del piave

MASSETTO 250

Traditional hydraulic sand-binder
screed



Product description

Pre-dosed, ready-to-use screed based on inerts selected in an adequately reconstructed curve from 0 to 4 mm and hydraulic binder (250 kg/m³ dosage).

Supply and Storage

MASSETTO 250 is supplied in polyethylene bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surfaces to be covered with MASSETTO 250 should be free from dust, efflorescence, oils and fats. Before installing the screed, check the moisture degree of the surface in order not to affect the normal drying of the substrate itself. MASSETTO 250 may be mixed in mixer until it reaches a consistency similar to that of moist soil. The material thus prepared should be applied in a uniform way. After having been compacted, it should be evened off with the aluminum level and finished with a float or with a rotating disc machine.

Fields of use

MASSETTO 250 is a screed suitable for the preparation of substrates, both interior and exterior, for ceramic floors, carpet, wooden floors, linoleum, etc.

Specifications

The interior and exterior surfaces will be prepared with the traditional hydraulic sand-binder screed type MASSETTO 250 from Fornaci Calce Grigolin, based on pre-selected inerts, hydraulic binders, which requires only water until it reaches a consistency similar to that of moist soil.

Technical data according to the UNI EN 13813 Standard

| | |
|---|--|
| Classification | CT - C20 - F5 |
| Maximum diameter | 4 mm |
| Pot life | 1 h |
| Water in the mix | until consistency of moist soil |
| Min. application thickness | 4 cm |
| Consumption | 20 kg/m ² per 1 cm. thickness |
| Fire resistance | A1 FL class |
| Mechanical resistance to flexion at 28 days | 5 N/mm ² |
| Mechanical resistance to compression at 28 days | 20 N/mm ² |

Disclaimers

Do not mix MASSETTO 250 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MASSETTO 250 when temperatures are below +5°C or above +30°C. Do not apply onto frozen surfaces.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



mortar del piave

MASSETTO RAPIDO

Fast-drying, normal curing traditional screed



Product description

Pre-dosed, ready-to-use screed based on inerts selected in an adequately reconstructed curve from 0 to 4 mm., special hydraulic binders and specific additives for the preparation of fast-drying screeds.

Supply and Storage

MASSETTO RAPIDO is supplied in polyethylene bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surfaces to be covered with MASSETTO RAPIDO should be free from dust, efflorescence, oils and fats. Before installing the screed, check the moisture degree of the surface, considering that if it exists, after installing a vapor barrier, it will eventually tend to move along the walls. After having carefully laid a sheet of polyethylene or PVC, fastened all along the walls and pillars with any kind of tape from compressible material, proceed with product preparation. For higher thicknesses, the screeds may be reinforced with arc-welded mesh with 20x20 cm, taking care to keep it raised from the ground so that it is covered by at least 1.5-2 cm in screed. The screed may be prepared in a regular concrete mixer or by continuous mixer until it reaches a consistency similar to that of moist soil. The product thus prepared should be spread out so evenly, then compacted,

subsequently evened off with the aluminum level and finished with a float or with a rotating disc machine.

Fields of use

MASSETTO RAPIDO is suitable for the preparation of substrates adapted for the installation of ceramic floors, carpet, wooden floors, linoleum, etc. After 8 days, it allows the substrate to reach a level of residual humidity less than 2%.

Specifications

The surfaces will be prepared with the pre-dosed, normal curing and fast-drying MASSETTO RAPIDO from Fornaci Calce Grigolin, ready-to-use which requires only water until it reaches a consistency similar to that of moist soil. The product thus prepared presents, after 28 days, a compression resistance superior to 20 N/mm² and a residual humidity of less than 2%.

Technical data according to the UNI EN 13813 Standard

| | |
|---|--|
| Classification | CT-C20-F5 |
| Inert diameter | 4 mm |
| Mixing duration | max 3 min. |
| Water in the mix | until consistency of moist soil |
| Min. application thickness | 4 cm |
| Pot life | 1 hour |
| Mechanical resistance to compression at 28 days | 20 N/mm ² |
| Mechanical resistance to flexion at 28 days | 5 N/mm ² |
| Drying time | 8 days for 4 cm. thickness |
| Consumption | 20 kg/m ² for 1 cm. thickness |
| Fire resistance | A1 FL class |

Disclaimers

Do not mix MASSETTO RAPIDO with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MASSETTO RAPIDO when temperatures are below +5°C or above +30°C. Do not apply onto frozen surfaces. Do not exceed 3 minutes mixing time during product preparation and do not exceed recommended water dosage, as water in excess might reduce mechanical resistance and drying time. Of course, for thicknesses exceeding 4 cm., drying time increases with 4 days for each successive cm.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



mortar del piave

CALCESTRUZZO R25

Traditional structural concrete



Product description

Pre-dosed, ready-to-use concrete based on inerts selected in an adequately reconstructed curve from 0 to 15 mm., hydraulic binder and specific additives.

Supply and Storage

CALCESTRUZZO R 25 is supplied in polyethylene bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

CALCESTRUZZO R 25 may be mixed in concrete mixers (for about 3-4 minutes) or hand-held mixer until it reaches a S4 type consistency. The material thus prepared should be applied within the next 20 minutes, in accordance with the methodology (type molds and reinforcement, timing of formwork removal) normally used with the concrete from concrete stations. Casts must be performed within 20 minutes.

Fields of use

CALCESTRUZZO R 25 is suitable for the preparation of items, interior and exterior,

even with load-bearing characteristics, as its special formula allows a mechanical resistance to compression superior to 28.5 N/mm² after 28 days.

Specifications

The interior and exterior items will be prepared with the pre-dosed, traditional CALCESTRUZZO R25 from Fornaci Calce Grigolin, based on selected inerts, hydraulic binders and special additives aimed at improving workability, which requires only water until it reaches a S4 type consistency. The concrete thus prepared presents a mechanical resistance to compression superior to 28.5 N/mm² after 28 days.

Technical data

| | |
|---|---|
| Maximum diameter | 15 mm |
| Pot life | 20 min |
| Curing time | starts after approx. 5-7 hrs. |
| Water in the mix | 3-4 liters per bag |
| Consumption | approx. 70 bags per m ² of product |
| Mechanical resistance to compression at 28 days | 7 days > 18,5 N/mm ² 28 days > 28,5 N/mm ² |
| Classification group (UNI 8520) | R 25 |
| Fire resistance | non flammable |

Disclaimers

Do not mix CALCESTRUZZO R25 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using CALCESTRUZZO R25 when temperatures are below +5°C or above +30°C. Do not apply onto frozen surfaces.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.





mortars

The mortar is designed to combine the construction elements, factually guaranteeing the stability of the finished product. Knowing that the availability of a wide range of premixed mortars contributes to the high quality of the application and its durability, the Fornaci Calce Grigolin line allows for the choice, from the classic product suitable for all types of masonry, among numerous “technical” mortars suited several different types of masonry. The mortars can be classified according to color, mechanical compression, thermal insulation and resistance to salt aggression.



mortars

MG 40

Masonry mortar, M5 class



Product description

Dry premix, based on selected inerts, hydrated lime, hydraulic binder, eminently hydraulic lime and special additives.

Supply and Storage

MG40, M5 class, is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. When temperatures are high, it is advisable to wet out the brick before laying.

For the application, operate as follows: Prepare the dough by adding about 15 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item.

Fields of use

MG40, M5 class, is a masonry mortar that is used on all types of exterior and interior walls. Due to its high mechanical strength, it is suitable for load-bearing walls. Also available in waterproof version MGK40, upon request.

Specifications

The elements used for the elevation of the walls, both internal and external, type hollow bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MG40, M5 class, from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders and special additives to improve workability and grip.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1600 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Pot life | 2 h |
| Water in the mix | approx. 15% |
| Hygrometric withdrawal | 0,45 mm/m |
| Min. application thickness | 0,5 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 3 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 7 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 0,82 W/mK (tabulated value) |

Disclaimers

Do not mix MG40, M5 class, with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MG40, M5 class, when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



mortars

MG 40

Masonry mortar, M10 class



Product description

Dry premix, based on selected inerts, hydrated lime, hydraulic binder, eminently hydraulic lime and special additives.

Supply and Storage

MG40, M10 class, is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. When temperatures are high, it is advisable to wet out the brick before laying. For the application, operate as follows: prepare the dough by adding about 15 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item.

Fields of use

MG40, M10 class, is a masonry mortar that is used on all types of exterior and interior walls. Due to its high mechanical strength, it is suitable for load-bearing walls. Also available in waterproof version MGK40, M10 class, upon request.

Specifications

The elements used for the elevation of the walls, both internal and external, type hollow bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MG40, M10 class, from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders and special additives to improve workability and grip.

Technical data according to the UNI EN 998-2 Standard

| | |
|---|--|
| Specific weight | 1600 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Pot life | 2 h |
| Water in the mix | approx. 15% |
| Hygrometric withdrawal | 0,45 mm/m |
| Min. application thickness | 0,5 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 3,8 N/mm ² |
| Mechanical resistance to compression at 28 days (M10) | > 12 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 1.04 W/mK (tabulated value) |

Disclaimers

Do not mix MG40, M10 class, with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MG40, M10 class, when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.



mortars

MGK 40

Water-repellent masonry mortar,
M5 class



Product description

Dry premix, based on selected inerts, hydrated lime, hydraulic binder, eminently hydraulic lime, special additives and water-repelling agent.

Supply and Storage

MGK40 is supplied in bulk, in a 22m³ silo.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. When temperatures are high, it is advisable to wet out the brick before laying.

For the application, operate as follows: Adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item.

Fields of use

MGK40 is a masonry mortar that is used on all types of exterior and interior walls.

Due to its high mechanical strength, it is suitable for load-bearing walls. Also available in M10 class, upon request.

Specifications

The elements used for the elevation of the walls, both internal and external, type hollow bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MGK40 (M5 or M10 class) from Fornaci Calce Grigolin, dry premix based on selected calcium-silicate inerts, aerial and hydraulic binders, special additives to improve workability and grip and waterproofing agent to increase water repellence.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1600 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Pot life | 2 h |
| Water in the mix | approx. 15% |
| Hygrometric withdrawal | 0,45 mm/m |
| Min. application thickness | 0,5 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 3 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 7 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 0.82 W/mK (tabulated value) |

Disclaimers

Do not mix MGK40 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MGK40 when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.



mortars

MG 18

Mortar for masonry with exposed concrete, M5 class



Product description

Dry premix, based on selected inerts, hydrated lime, hydraulic binder and special additives.

Supply and Storage

MG18 is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. In order to minimize the efflorescence phenomenon, the bricks should be soaked in water for several hours before laying, thus saturating the pores, and use in half an hour after removal from water. Pores saturation limits to the maximum the contact between the substances present in the bricks and the mortar, which give birth to compounds that constitute the basis for the efflorescence phenomenon. For the application, operate as follows: prepare the dough by adding about 19 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights,

taking care to properly attach each item. Once the plastic phase is finished, proceed to fix the joints with the appropriate iron.

Fields of use

MG18 is a mortar for masonry with exposed concrete, interior or exterior, to be used with bricks, vibrated cement and expanded clay blocks. The low particle size allows for a perfect styling of the joints.

Specifications

The elements used for the elevation of the walls, both internal and external, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MG18 from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders and special additives to improve workability and grip.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1500 kg/m ³ determined in free fall |
| Maximum diameter | 1,25 mm |
| Pot life | 2 h |
| Water in the mix | approx. 19% |
| Hygrometric withdrawal | 0,5 mm/m |
| Min. application thickness | 0,5 ÷ 2 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 2,5 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 6 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 0.75 W/mK (tabulated value) |

Disclaimers

Do not mix MG18 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MG18 when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



mortars

MGK 18

Water-repellent mortar for masonry with exposed concrete, M5 class



Product description

Dry premix, based on selected inerts, hydrated lime, hydraulic binder, water-repelling agent and special additives.

Supply and Storage

MGK18 is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. In order to minimize the efflorescence phenomenon, the bricks should be soaked in water for several hours before laying, thus saturating the pores, and use in half an hour after removal from water. Pores saturation limits to the maximum the contact between the substances present in the bricks and the mortar, which give birth to compounds that constitute the basis for the efflorescence phenomenon.

For the application, operate as follows: prepare the dough by adding about 19 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly

attach each item. Once the plastic phase is finished, proceed to fix the joints with the appropriate iron.

Fields of use

MGK18 is a mortar for masonry with exposed concrete, interior or exterior, to be used with bricks, vibrated cement and expanded clay blocks. The low particle size allows for a perfect styling of the joints.

Specifications

The elements used for the elevation of the walls, both internal and external, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MGK18 from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders and special additives to improve workability and grip and waterproofing agent to increase water repellence.

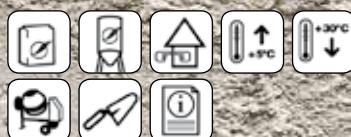
Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1500 kg/m ³ determined in free fall |
| Maximum diameter | 1,25 mm |
| Pot life | 2 h |
| Water in the mix | approx. 19% |
| Hygrometric withdrawal | 0,5 mm/m |
| Min. application thickness | 0,5 ÷ 2 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 2,5 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 6 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 0.75 W/mK (tabulated value) |

Disclaimers

Do not mix MGK18 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MGK18 when temperatures are below +5°C or above +30°C. Wet surface before application.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



mortars

MGK 18 EXTRA BIANCO

Water-repellent mortar for masonry with exposed concrete, white color, M5 class



Product description

Dry premix, based on selected inerts, hydrated lime, white hydraulic binder type I-52.2-R, water-repelling agent and special additives.

Supply and Storage

MGK18 Extra White is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. In order to minimize the efflorescence phenomenon, the bricks should be soaked in water for several hours before laying, thus saturating the pores, and use in half an hour after removal from water. Pores saturation limits to the maximum the contact between the substances present in the bricks and the mortar, which give birth to compounds that constitute the basis for the efflorescence phenomenon.

For the application, operate as follows: Prepare the dough by adding about 20 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care

to properly attach each item. Once the plastic phase is finished, proceed to fix the joints with the appropriate iron.

Fields of use

MGK18 Extra White is a mortar for masonry with exposed concrete, interior or exterior, to be used with bricks, vibrated cement and expanded clay blocks. The low particle size allows for a perfect styling of the joints.

Specifications

The elements used for the elevation of the walls, both interior and exterior, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MGK18 Extra White from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders, special additives to improve workability and grip and waterproofing agent to increase water repellence.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1400 kg/m ³ determined in free fall |
| Maximum diameter | 1,25 mm |
| Pot life | 2 h |
| Water in the mix | approx. 20% |
| Hygrometric withdrawal | 0,5 mm/m |
| Min. application thickness | 0,5 ÷ 2 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 2,5 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 6 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | Thermal conductivity |

Thermal conductivity

Do not mix MGK18 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MGK18 when temperatures are below +5°C or above +30°C. Wet surface before application.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



mortars

MG 18 MALTACOLOR G5 "TERRA DI SIENA"

Colored mortar for masonry with exposed concrete, M5 class



Product description

Dry premix, based on selected inerts, aerial and hydraulic binders, special additives, inorganic pigments and colored soils.

Supply and Storage

MG18 COLORMORTAR M5 "Terra di Siena", is supplied in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. In order to minimize the efflorescence phenomenon, the bricks should be soaked in water for several hours before laying, thus saturating the pores, and use in half an hour after removal from water. Pores saturation limits to the maximum the contact between the substances present in the bricks and the mortar, which give birth to compounds that constitute the basis for the efflorescence phenomenon. For the application, operate as follows: Prepare the dough by adding about 19 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency. Proceed with application after having placed alignment and lead weights, taking care to properly attach each item. Once the plastic phase is finished, proceed to fix the joints with the appropriate iron.

Fields of use

MG18 COLORMORTAR M5 "Terra di Siena" is a mortar for masonry with exposed concrete, interior or exterior, to be used with bricks, vibrated cement and expanded clay blocks. The low particle size allows for a perfect styling of the joints. The particular color is very appreciated for restoration works.

Specifications

The elements used for the elevation of the walls, both interior and exterior, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MG18 COLORMORTAR M5 "Terra di Siena" from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders, special additives to improve workability and a mixture of inorganic pigments and colored soils which give it the typical "Terra di Siena" nuance.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1500 kg/m ³ determined in free fall |
| Maximum diameter | 1,25 mm |
| Pot life | 2 h |
| Water in the mix | approx. 19% |
| Hygrometric withdrawal | 0,5 mm/m |
| Min. application thickness | 0,5 ÷ 2 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 2,5 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 6 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 0.75 W/mK (tabulated value) |

Disclaimers

Do not mix MG18 COLORMORTAR M5 "Terra di Siena" with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MG18 COLORMORTAR M5 "Terra di Siena" when temperatures are below +5°C or above +30°C. Wet surface before application.



mortars

MG 28

Masonry mortar, M5 class



Product description

Dry premix, based on selected inerts, hydrated lime, hydraulic binder, eminently hydraulic lime and special additives.

Supply and Storage

MG28, M5 class, is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. When temperatures are high, it is advisable to wet out the brick before laying.

For the application, operate as follows: Prepare the dough by adding about 15 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item.

Fields of use

MG18 is a masonry mortar that is used on all types of exterior and interior walls. Due to its high mechanical strength, it is suitable for load-bearing walls. Also available in waterproof version MGK28, upon request.

Specifications

The elements used for the elevation of the walls, both internal and external, type hollow bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MG28 from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders and special additives to improve workability and grip.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1600 kg/m ³ determined in free fall |
| Maximum diameter | 2 mm |
| Pot life | 2 h |
| Water in the mix | approx. 15% |
| Hygrometric withdrawal | 0,45 mm/m |
| Min. application thickness | 0,5 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 3 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 7 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 0.77 W/mK (tabulated value) |

Disclaimers

Do not mix MG28 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MG28 when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.



mortars

MALTACOLOR G5 "TERRA DI SIENA"

Colored mortar for masonry with exposed concrete, M5 class



Product description

Dry premix, based on selected inerts, aerial and hydraulic binders, special additives, inorganic pigments and colored soils.

Supply and Storage

MALTACOLOR G5 "Terra di Siena" is supplied in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. In order to minimize the efflorescence phenomenon, the bricks should be soaked in water for several hours before laying, thus saturating the pores, and use in half an hour after removal from water. Pores saturation limits to the maximum the contact between the substances present in the bricks and the mortar, which give birth to compounds that constitute the basis for the efflorescence phenomenon. For the application, operate as follows: prepare the dough by adding about 15 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency. Proceed with application after having placed alignment and lead weights, taking care to properly attach each item. Once the plastic phase is finished, proceed to fix the joints with the appropriate iron.

Fields of use

MALTACOLOR G5 "Terra di Siena" is a mortar for masonry with exposed concrete, interior or exterior, to be used with bricks, vibrated cement and expanded clay blocks. The particular color is very appreciated for restoration works. The waterproof version MALTACOLOR KG5 is also available, upon request.

Specifications

The elements used for the elevation of the walls, both interior and exterior, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MALTACOLOR G5 "Terra di Siena" from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders, special additives to improve workability and a mixture of inorganic pigments and colored soils which give it the typical "Terra di Siena" nuance.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1600 kg/m ³ determined in free fall |
| Maximum diameter | 2 mm |
| Pot life | 2 h |
| Water in the mix | approx. 15% |
| Hygrometric withdrawal | 0,45 mm/m |
| Min. application thickness | 0,5 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 3 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 7 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 0.75 W/mK (tabulated value) |

Disclaimers

Do not mix MALTACOLOR G5 "Terra di Siena" with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MALTACOLOR G5 "Terra di Siena" when temperatures are below +5°C or above +30°C. Wet surface before application.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



mortars

MG 182

Mortar for masonry with exposed concrete, M10 class



Product description

Dry premix, based on selected inerts, hydraulic binders and special additives.

Supply and Storage

MG182 is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. In order to minimize the efflorescence phenomenon, the bricks should be soaked in water for several hours before laying, thus saturating the pores, and use in half an hour after removal from water. Pores saturation limits to the maximum the contact between the substances present in the bricks and the mortar, which give birth to compounds that constitute the basis for the efflorescence phenomenon.

For the application, operate as follows: prepare the dough by adding about 17 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care

to properly attach each item. Once the plastic phase is finished, proceed to fix the joints with the appropriate iron.

Fields of use

MG182 is a mortar for masonry with exposed concrete, interior or exterior, to be used with bricks, vibrated cement and expanded clay blocks. The low particle size allows for a perfect styling of the joints. Due to its high mechanical strength, it is suitable for load-bearing walls.

Specifications

The elements used for the elevation of the walls, both interior and exterior, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MG182 from Fornaci Calce Grigolin, dry premix based on selected inerts, hydraulic binders, special additives to improve workability and grip.

Technical data according to the UNI EN 998-2 Standard

| | |
|---|--|
| Specific weight | 1550 kg/m ³ determined in free fall |
| Maximum diameter | 1,25 mm |
| Pot life | 2 h |
| Water in the mix | approx. 17% |
| Hygrometric withdrawal | 0,5 mm/m |
| Min. application thickness | 0,5 ÷ 2 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 3 N/mm ² |
| Mechanical resistance to compression at 28 days (M10) | > 10 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 0.90 W/mK (tabulated value) |

Disclaimers

Do not mix MG182 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MG182 when temperatures are below +5°C or above +30°C. Wet surface before application.



mortars

MGK 182

Waterproof mortar for masonry with exposed concrete, M10 class



Product description

Dry premix, based on selected inerts, hydraulic binders, waterproofing agent and special additives.

Supply and Storage

MGK182 is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. In order to minimize the efflorescence phenomenon, the bricks should be soaked in water for several hours before laying, thus saturating the pores, and use in half an hour after removal from water. Pores saturation limits to the maximum the contact between the substances present in the bricks and the mortar, which give birth to compounds that constitute the basis for the efflorescence phenomenon.

For the application, operate as follows: prepare the dough by adding about 17 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care

to properly attach each item. Once the plastic phase is finished, proceed to fix the joints with the appropriate iron.

Fields of use

MGK182 is a mortar for masonry with exposed concrete, interior or exterior, to be used with bricks, vibrated cement and expanded clay blocks. The low particle size allows for a perfect styling of the joints. Due to its high mechanical strength, it is suitable for load-bearing walls.

Specifications

The elements used for the elevation of the walls, both interior and exterior, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MGK182 from Fornaci Calce Grigolin, dry premix based on selected inerts, hydraulic binders, special additives to improve workability and grip.

Technical data according to the UNI EN 998-2 Standard

| | |
|---|--|
| Specific weight | 1550 kg/m ³ determined in free fall |
| Maximum diameter | 1,25 mm |
| Pot life | 2 h |
| Water in the mix | approx. 17% |
| Hygrometric withdrawal | 0,5 mm/m |
| Min. application thickness | 0,5 ÷ 2 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 3 N/mm ² |
| Mechanical resistance to compression at 28 days (M10) | > 10 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 0.90 W/mK (tabulated value) |

Disclaimers

Do not mix MGK182 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MGK182 when temperatures are below +5°C or above +30°C. Wet surface before application.



mortars

MG 24 ORE

Delayed curing masonry mortar,
M5 class



Product description

Dry premix, based on selected inerts, hydrated lime, hydraulic binders, mainly hydraulic lime and special additives.

Supply and Storage

MG24 ORE is supplied in bulk, in a 22m³ silo.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. In case of high temperatures, thoroughly wet the surface before commencing installation. For the application, operate as follows: adjust the water intake of the mixer to reach optimum consistency. Proceed with application after having placed alignment and lead weights, taking care to properly attach each item.

Fields of use

MG24 ORE is a masonry mortar for all types of masonry, interior or exterior.

Due to its high mechanical strength, it is suitable for load-bearing walls. Pot life: 24 hours after mix.

Specifications

The elements used for the elevation of the walls, both interior and exterior, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar with delayed curing MG24 ORE from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders and special additives to prolong pot life up to 24 hours and to improve workability and grip.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1600 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Pot life | 24 h |
| Water in the mix | approx. 14% |
| Hygrometric withdrawal | 0,45 mm/m |
| Min. application thickness | 0,5 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 3 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 7 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 0.77 W/mK (tabulated value) |

Disclaimers

Do not mix MG24 ORE with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MG24 ORE when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



mortars

MG 35 JOLLY

Mortar for masonry and hand plastering, M5 class



Product description

Dry premix, based on selected inerts, hydrated lime, hydraulic binders, mainly hydraulic lime and special additives.

Supply and Storage

MG35 JOLLY is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. In case of high temperatures, thoroughly wet the surface before commencing installation. For the application, operate as follows: Prepare the dough by adding about 18 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item.

Fields of use

MG35 JOLLY is a masonry mortar for all types of masonry, interior or exterior. Due to its special formula, it may be used for manual plastering, repair of cracks and other small interventions.

Specifications

The elements used for the elevation of the walls, both interior and exterior, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MG35 JOLLY from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders and special additives aimed at improving workability and grip. If used for plastering, maximum application thickness should not exceed 1.5 cm. per layer.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1550 kg/m ³ determined in free fall |
| Maximum diameter | 2 mm |
| Pot life | 2 h |
| Water in the mix | approx. 18% |
| Hygrometric withdrawal | 0,45 mm/m |
| Min. application thickness | 0,5 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 2 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 6 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 0.73 W/mK (tabulated value) |

Disclaimers

Do not mix MG35 JOLLY with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MG35 JOLLY when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.



mortars

MG 00

Mortar for masonry with exposed concrete, for non-absorbant surfaces, M5 class



Product description

Dry premix, based on selected inerts, hydrated lime, hydraulic binder and special additives.

Supply and Storage

MG00 is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. For the application, operate as follows: Prepare the dough by adding about 17 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item. Once the plastic phase is finished, proceed to fix the joints with the appropriate iron.

Fields of use

MG00 is a mortar for masonry with exposed concrete, interior or exterior, to be used with bricks or other low-absorbant surfaces. The low particle size allows for a perfect styling of the joints. Due to its high mechanical strength, it is suitable for load-bearing walls. The waterproof version MGK00 is also available, upon request.

Specifications

The elements used for the elevation of the walls, both interior and exterior, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MG00 from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders and special additives aimed at improving workability and grip.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1500 kg/m ³ determined in free fall |
| Maximum diameter | 1,25 mm |
| Pot life | 2 h |
| Water in the mix | approx. 17% |
| Hygrometric withdrawal | 0,5 mm/m |
| Min. application thickness | 0,5 ÷ 2 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 2,5 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 6 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 0.90 W/mK (tabulated value) |

Disclaimers

Do not mix MG00 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MG00 when temperatures are below +5°C or above +30°C.



mortars

MGK 00

Waterproof mortar for masonry with exposed concrete, for non-absorbant surfaces, M5 class



Product description

Dry premix, based on selected inerts, hydrated lime, hydraulic binder, special additives and waterproofing agent.

Supply and Storage

MGK00 is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. For the application, operate as follows: prepare the dough by adding about 17 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item. Once the plastic phase is finished, proceed to fix the joints with the appropriate iron.

Fields of use

MGK00 is a mortar for masonry with exposed concrete, interior or exterior, to be used with bricks or other low-absorbant surfaces. The low particle size allows for a perfect styling of the joints.

Specifications

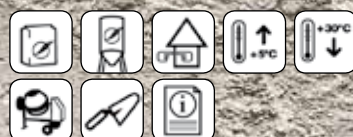
The elements used for the elevation of the walls, both interior and exterior, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MGK00 from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders, special additives aimed at improving workability and grip and waterproofing agent to increase water repellence.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1500 kg/m ³ determined in free fall |
| Maximum diameter | 1,25 mm |
| Pot life | 2 h |
| Water in the mix | approx. 17% |
| Hygrometric withdrawal | 0,5 mm/m |
| Min. application thickness | 0,5 ÷ 2 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 2,5 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 6 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 0.90 W/mK (tabulated value) |

Disclaimers

Do not mix MGK00 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MGK00 when temperatures are below +5°C or above +30°C.



mortars

MG 80

Cement mortar for masonry group III according to SIA norms.



Product description

Dry premix, based on selected inerts, hydrated lime, hydraulic binders, mainly hydraulic lime and special additives.

Supply and Storage

MG80 is supplied in bulk, in a 22m³ silo and in bituminated bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. In case of high temperatures, thoroughly wet the surface before commencing installation.

For the application, operate as follows: prepare the dough by adding about 16 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item.

Fields of use

MG80 is a mortar for masonry which may be used on all types of surfaces, interior or exterior, which require high mechanical resistance values.

Specifications

The elements used for the elevation of the walls, both interior and exterior, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MG80 from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders and special additives aimed at improving workability and grip.

Technical data according to the UNI EN 998-2 Standard

| | |
|---|--|
| Specific weight | 1600 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Pot life | 2 h |
| Water in the mix | approx. 16% |
| Hygrometric withdrawal | 0,5 mm/m |
| Min. application thickness | 0,5 cm |
| Mechanical resistance to flexion at 28 days | >5,5 N/mm ² |
| Mechanical resistance to compression at 28 days (M20) | >20 N/mm ² |
| Water vapor permeability μ | 15/35 (tabulková hodnota) |
| Počáteční pevnost ve střihu | 0,15 N/mm ² (tabulated value) |
| Chloride content | <0,01 % |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.90 W/mK (tabulated value) |

Disclaimers

Do not mix MG80 other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MG80 when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.

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mortars

MGK 003

High mechanical resistance, water-proof mortar for masonry with exposed concrete, for low-absorbant surfaces



Product description

Dry premix, based on selected inerts, hydraulic binders, special additives and waterproofing agent.

Supply and Storage

MGK003 is supplied in bulk, in a 22m³ silo and in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. For the application, operate as follows: Prepare the dough by adding about 16 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency (for product delivered in bags), or adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item. Once the plastic phase is finished, proceed to fix the joints with the appropriate iron.

Fields of use

MGK003 is a mortar for masonry with exposed concrete, interior or exterior, which may be used onto bricks or any other type of low-absorbant surfaces. Its special formula allows for a perfect styling of the joints with low water absorbtion.

Specifications

The elements used for the elevation of the walls, both interior and exterior, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed mortar MGK003 from Fornaci Calce Grigolin, dry premix based on selected inerts, aerial and hydraulic binders, special additives aimed at improving workability and grip and waterproofing agent to increase water repellence.

Technical data according to the UNI EN 998-2 Standard

| | |
|---|--|
| Specific weight | 1500 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Pot life | 2 h |
| Water in the mix | approx. 16% |
| approx. 16% | 0,45 mm/m |
| Min. application thickness | 0,5 cm |
| Mechanical resistance to flexion at 28 days | > 5,5 N/mm ² |
| Mechanical resistance to compression at 28 days (M20) | > 20 N/mm ² |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Chloride content | < 0,01% |
| Fire resistance | A1 class |
| Thermal conductivity λ | 0.90 W/mK (tabulated value) |

Disclaimers

Do not mix MGK003 other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using MGK003 when temperatures are below +5°C or above +30°C.



mortars

PZ 16

Pozzolan mortar for masonry with exposed concrete, M5 class



Product description

Dry premix, based on selected inerts, hydrated lime, pozzolanic binders, highly resistant to salts and special additives.

Supply and Storage

PZ16 is supplied in bulk, in a 22m³ silo. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. In order to minimize the efflorescence phenomenon, the bricks should be soaked in water for several hours before laying, thus saturating the pores, and use in half an hour after removal from water. Pores saturation limits to the maximum the contact between the substances present in the bricks and the mortar, which give birth to compounds that constitute the basis for the efflorescence phenomenon. For the application, operate as follows: adjust the water intake of the mixer to reach optimum consistency. Proceed with application after having placed alignment and lead weights, taking care to properly attach each item. Once the plastic phase is finished, proceed to fix the joints with the appropriate iron.

Fields of use

PZ16 is a mortar for masonry with exposed concrete, interior or exterior, which may be used onto vibrated cement or expanded clay blocks. The low particle size allows for a perfect styling of the joints.

Specifications

The elements used for the elevation of the walls, both interior and exterior, type apparent bricks, concrete blocks, etc. must be carefully enticed with the premixed pozzolanic mortar PZ16 from Fornaci Calce Grigolin, dry premix based on selected inerts, pozzolanic binder, special additives aimed at improving workability and grip. The pozzolanic binder with high-resistance to salts makes the product ideally suited for this type of use and for preventing the efflorescence phenomena.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|--|
| Specific weight | 1500 kg/m ³ determined in free fall |
| Maximum diameter | 1,25 mm |
| Pot life | 2 h |
| Water in the mix | approx. 17% |
| Hygrometric withdrawal | 0,5 mm/m |
| Application thickness | 0,5 ÷ 2 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 2,5 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 6 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Thermal conductivity λ | 0.75 W/mK (tabulated value) |

Disclaimers

Do not mix PZ16 other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using PZ16 when temperatures are below +5°C or above +30°C. Wet surface before application.

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mortars

SC 30

Mortar for installation covering



Product description

Dry premix, based on selected inerts in adequately recomposed curve from 0 to 3 mm., hydraulic binder (dosage 250 kg./m³) and special additives.

Supply and Storage

SC30 is supplied in bulk, in a 22m³ silo.

Surface Preparation and Application

The surface to be covered with the SC30 premix must be free from dust, efflorescence, oils and fats. For the application, operate as follows: adjust the water intake of the mixer to reach optimum consistency and proceed with application.

Fields of use

SC30 is a product ideal for covering installations, in general.

Specifications

The installation pipes will be covered with the hydraulic sand-binder premix SC30 from Fornaci Calce Grigolin, dry premix based on selected inerts, hydraulic binders and special additives aimed at improving workability, which does not require additional inerts or binders, to be mixed only with water until it reaches optimal consistency needed to install the coating.

Technical data according to the UNI EN 998-2 Standard

| | |
|---|--|
| Specific weight | 1850 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Pot life | 2 h |
| Water in the mix | approx. 15% |
| Minimum application thickness | 4 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Consumption | 18-20 kg/m ² per cm |
| Fire resistance | A1 class |
| Water vapor permeability μ | 15/35 (tabulated value) |
| Binder dosage | 250 kg/m ³ |
| Mechanical resistance to compression at 28 days | > 12 N/mm ² |
| Thermal conductivity λ | 1.04 W/mK (tabulated value) |

Disclaimers

Do not mix SC30 other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using SC30 when temperatures are below +5°C or above +30°C. Do not apply onto frozen surfaces.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



mortars

THERMOG 02

Mortar for thermal insulation masonry, M5 class



Product description

Dry premix, based on lightweight selected inerts, hydrated lime, hydraulic binder, mainly hydraulic lime and special additives.

Supply and Storage

THERMOG02 is supplied in bulk, in a 22m³ silo. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. When temperatures are high, it is advisable to wet out the brick before laying. For the application, operate as follows: adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item. While the product is still soft, spread the mortar in lines which cover the outer side of the thermal insulation bricks, carefully avoiding that these lines meet.

Fields of use

THERMOG02 is a mortar which is used on all types of exterior and interior masonry where thermal insulation bricks are used, or cement blocks with insula-

tion inerts. Given the high mechanical resistance of the product, it is also suited for load-bearing walls. Do not use onto cellular cement blocks, gypsum surfaces and for masonry with exposed concrete.

Specifications

The thermal insulation elements used for the elevation of the walls, both interior and exterior, like porous bricks, thermal insulation blocks, etc. must be carefully enticed with premixed mortar type THERMOG02 from Fornaci Calce Grigolin, dry premix based on selected inerts, lightweight aggregates, aerial and hydraulic binders and special additives aimed at improving workability and grip. The mortar will be placed on blocks, taking care to form two separate courses with space between each other in order to minimize the possibility of bridging.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|---|
| Specific weight | 1100÷1200 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Pot life | 2 h |
| Water in the mix | approx. 30-32% |
| Hygrometric withdrawal | 0,5 mm/m |
| Application thickness | 0,5 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 2,5 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 6 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 5/20 (tabulated value) |
| Thermal conductivity λ | 0.34 W/mK (tabulated value) |

Disclaimers

Do not mix THERMOG02 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using THERMOG02 when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.

The reported data refers to Quality Control tests in standard environmental conditions. Practical applications in the construction sites may detect significantly changed data, depending on operating conditions, so the information on the Card is only indicative because the user must always check its suitability for intended use of the product by taking responsibility for the use. Fornaci Calce Grigolin S.p.A. reserves the right to make technical changes of any kind without prior notice.



mortars

THERMOG 03

Mortar for thermal insulation masonry, M5 class



Product description

Dry premix, based on lightweight selected inerts, hydrated lime, hydraulic binder, mainly hydraulic lime and special additives.

Supply and Storage

THERMOG03 is supplied in bulk, in a 22m³ silo.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. When temperatures are high, it is advisable to wet out the brick before laying.

For the application, operate as follows: adjust the water intake of the mixer to reach optimum consistency (for product delivered in silo). Proceed with application after having placed alignment and lead weights, taking care to properly attach each item. While the product is still soft, spread the mortar in lines which cover the outer side of the thermal insulation bricks, carefully avoiding that these lines meet.

Fields of use

THERMOG03 is a mortar which is used on all types of exterior and interior masonry where thermal insulation bricks are used,

or cement blocks with insulation inerts. Do not use onto cellular cement blocks, gypsum surfaces and for masonry with exposed concrete.

Specifications

The thermal insulation elements used for the elevation of the walls, both interior and exterior, like porous bricks, thermal insulation blocks, etc. must be carefully enticed with premixed mortar type THERMOG03 from Fornaci Calce Grigolin, dry premix based on selected inerts, lightweight aggregates, aerial and hydraulic binders and special additives aimed at improving workability and grip. The mortar will be placed on blocks, taking care to form two separate courses with space between each other in order to minimize the possibility of bridging.

Technical data according to the UNI EN 998-2 Standard

| | |
|--|---|
| Specific weight | 850-950 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Pot life | 2 h |
| Water in the mix | approx. 30-32% |
| Application thickness | 0,5 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 2,2 N/mm ² |
| Mechanical resistance to compression at 28 days (M5) | > 5 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 5/20 (tabulated value) |
| Thermal conductivity λ | 0.24 W/mK (tabulated value) |

Disclaimers

Do not mix THERMOG03 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using THERMOG03 when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces.

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mortars

THERMOG 021

Mortar for thermal insulation masonry, high insulation power, M5 class



Product description

Dry premix, based on lightweight selected inerts with high expansion degree, hydraulic binder and special additives.

Supply and Storage

THERMOG021 is supplied in bags, on stretch pallets. Store in a cool, dry and non ventilated place. Keep packaging intact. Use before expiry date stated on the bag.

Surface Preparation and Application

The surface must be free from dust, efflorescence, oils and fats. When temperatures are high, it is advisable to wet out the brick before laying.

For the application, operate as follows: Prepare the dough by adding about 16-18 lt. of water x 100 kg of dry product: stir in drum and, if needed, add water to reach optimum consistency. Proceed with application after having placed alignment and lead weights, taking care to properly attach each item.

Fields of use

THERMOG021 is a mortar which is used on all types of exterior and interior

masonry where thermal insulation bricks are used, or cement blocks with high insulation power. Do not use onto cellular cement blocks, gypsum surfaces and for masonry with exposed concrete.

Specifications

The thermal insulation elements used for the elevation of the walls, like porous bricks, thermal insulation blocks, etc. must be carefully enticed with premixed mortar type THERMOG021 from Fornaci Calce Grigolin, dry premix based on selected inerts, lightweight aggregates with high expansion degree, hydraulic binders and special additives aimed at improving workability and grip.

Technical data according to the UNI EN 998-2 Standard

| | |
|---|---|
| Specific weight | 650 kg/m ³ determined in free fall |
| Maximum diameter | 3 mm |
| Pot life | 2 h |
| Water in the mix | approx. 16-18% |
| Application thickness | 0,5 cm |
| Chloride content | < 0,01% |
| Resistance to initial cut | 0,15 N/mm ² (tabulated value) |
| Mechanical resistance to flexion at 28 days | > 1,5 N/mm ² |
| Mechanical resistance to compression at 28 days | > 5 N/mm ² |
| Fire resistance | A1 class |
| Water vapor permeability μ | 5/20 (tabulated value) |
| Thermal conductivity λ | 0.19 W/mK (tabulated value) |

Disclaimers

Do not mix THERMOG021 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying. Avoid using THERMOG021 when temperatures are below +5°C or above +30°C. Wet surface before application. Do not apply onto frozen surfaces. In case of fire, it does not produce fumes or toxic substances.

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complementary

This product line was designed to complement the Grigolin line and to provide a 360° service.



complementary

ASFALTO A FREDDO

Bituminous concrete



Product description

Cold bituminous conglomerate, ready-to-use, composed of a grit, crushing sand and filler mixture, bitumen and specific additives.

Supply and Storage

COLD ASPHALT is supplied in 25 kg bags. Store in a covered space at room temperature, preferably not below +5 °C.

Surface Preparation and Application

Pour the bituminous conglomerate according to the surface to be repaired, spread the product with a the batter and then compact with a shovel, roller or pestle. We recommend an application thickness of at least 5 cm. Once application is completed, especially in summer time, dust the treated area with cement dust, sand or filler to promote hardening. Avoid, whenever possible, the application of the COLD ASPHALT at temperatures below +5 °C.

Fields of use

COLD ASPHALT is particularly suited for the repair of small discontinuities (potholes) in the road surface, especially in the case of urgently needed works to restore the security of the road surface. It may also be used to make small interventions (paths, roads or sidewalks) or prepare a laying bed for pipes. Due to its physical characteristics, it may also be used for the paving of the terraces and for the setting of impermeable sheaths.

Technical data

| | |
|---|----------------------------------|
| Aggregate | sand, grit, and limestone filler |
| Bituminous binder | street bitumen 70/100 |
| Specific additive % of bitumen + additive of aggregates | 5,6% |
| Granulometric curve | continuous and distribuit |
| Particle size | 0-6 mm |
| Loose specific weight (not compacted) | 1,7 t/m ³ |

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complementary

MISTERGRIGO



Natural lime baked on wood

High-purity, white hydrated lime

Fields of use

- water purification
- correction of soil acidity
- disinfectant action

Disclaimers

Keep dry.

Supply and Storage

Available in 2 kg packs. Store in a cool, dry and non ventilated place. Keep packaging intact. Use within 6 months from the date stated on the bag.

Masonry lime

Plastic binder for construction

Fields of use

- use in combination with sand for the production of mortars and cements, in general

Disclaimers

Keep dry.

Supply and Storage

Available in 4 kg packs. Store in a cool, dry and non ventilated place. Keep packaging intact. Use within 6 months from the date stated on the bag.

Jolly Mortar

Masonry and plaster mortar for manual applications, M5class

Fields of use

- masonry of various kinds
- interior and exterior plastering
- general works

Surface preparation and Application

Thoroughly clean the surface. In case of high temperatures, it is recommended to soak the bricks before laying. Prepare the dough by adding about 1 lt of water per bag and mix by hand.

Disclaimers

Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying.

Supply and Storage

Available in 5 kg packs. Store in a cool, dry and non ventilated place. Keep packaging intact. Use within 6 months from the date stated on the bag.

Stucco

Gypsum-based powder binder

Fields of use

- for interior plasters with white, mirror-like, smooth surfaces
- for the finish of rough, gypsum- or cement-based plasters

Surface Preparation and Application

Thoroughly clean the surface. The dough must be prepared by adding powder to water up to saturation (3 liters per 5 kg bag). Allow to rest and then knead only the part to be used immediately.

Disclaimers

Keep dry. Do not mix with other substances. Avoid extreme changes in heat while hardening.

Supply and Storage

Available in 5 kg packs. Store in a cool, dry and non ventilated place. Keep packaging intact. Use within 6 months from the date stated on the bag.

Superadhesive

High adhesion adhesive

Fields of use

- fastening ceramic tiles on the floor or in vertical position on any substrate and cement plaster
- for interior and exterior use.

Surface Preparation and Application

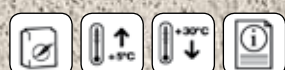
The surface should be level, consistent, clean and dry. Prepare the dough by adding 1.5 liters of water per bag and mix by hand or mechanical shaker. Let stand 10 minutes, stir and apply with a toothed spatula. Pot life is 8 hours. In case of fastening of ceramic tiles in open air spaces or for laying floors in polished work, the bonding must be performed with double coating.

Disclaimers

Do not use on gypsum surfaces or on plasterboard walls, on concrete or on heated floors.

Supply and Storage

Available in 5 kg packs. Store in a cool, dry and non ventilated place. Keep packaging intact. Use within 6 months from the date stated on the bag.



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complementary

GRIGOCALOR

Logs and wood pellets

Product description

The pellets and logs of the GRIGOCALOR line are made from solid wood sawdust. In particular, the composition of the finished product is approximately half of spruce wood, which has a high ignition power, and half of broadleaf hardwoods (mainly beech, oak and ash) that have a high calorific value and give the characteristic color of dark wood. Moreover, the compression process with subsequent overheating causes a further loss of moisture, which is 8%. This way, the products of the GRINCENDIA-BILITÀ line have a high heating power.

Fields of use

The logs are suitable for use in stoves, boilers, fireplaces, heaters and outdoor fires. The pellets are suitable for fireplaces, stoves and boilers that work on pellets.

Pellet technical data

| Parameters | Measuring unit | Value |
|------------------------------|-------------------|---------------|
| Humidity | % weight t.q. | < 8 |
| Ash | % weight s.s. | ≤ 0,7 |
| Powders | % weight | < 0,8 |
| Binding agents | % weight m.p. | Absent |
| Mechanical durability | % weight | ≥ 97,7 |
| Apparent density | kg/m ³ | 620 ≤ x ≤ 720 |
| Nitrogen | % weight s.s. | < 0,3 |
| Chlorine | % weight s.s. | < 0,03 |
| Sulfur | % weight s.s. | < 0,05 |
| Metals | Arsenic | mg/kg s.s. |
| | Cadmium | mg/kg s.s. |
| | Chromium | mg/kg s.s. |
| | Nickel | mg/kg s.s. |
| | Lead | mg/kg s.s. |
| Caloric power | | kcal/kg s.tq. |
| | | kWh/kg s.tq. |
| | | Mj/kg s.tq. |
| Aromatic organic solvents | mg/kg s.s. | < 0,1 |
| Chlorinated organic solvents | mg/kg s.s. | < 0,1 |

s.s.= dry substance, s.tq.= substance as is, m.p.= pressed mass.

Advantages

- caloric yield, trunks: 4.100/4.400 kcal/kg.*
- caloric yield, pellets: >4.400 kcal/kg. s.tq.
- low humidity: 8%
- low residual ash: approx. 0.6%*
- low emissions
- convenience of use.

* Analysis performed at accredited laboratory SINAL No. 0128 according to UNI CEI EN 45001.



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inerts

The inerts are mainly used in construction as a component of composite materials. The products of the Inerts line of Fornaci Calce Grigolin are natural, or obtained by the crushing of alluvial or quarry inerts, carefully washed and selected. Their use allow for the waste-free production of concretes, substrates, mortars and plasters in general. The products of the Inerts line are used in the restoration and construction of small items that can be used for land consolidation and for urban furniture.



inerts

LINEA INERTI

Product description

It consists of natural inerts or inerts obtained from the crushing of alluvial or quarry inerts, carefully washed and selected.

Supply and Storage

The products of the INERTS Line are supplied in bags on stretch pallets, in bulk trucks (CALCITEG 100) or in closed containers.

Fields of use

The use of line INERT Line for the waste-free production of concretes, substrates, mortars and plasters in general. The products of the INERTS Line are used in the restoration and construction of small items which can also be used to consolidate the land and for urban furniture, paths, patios, etc. A particular product is the CALCITEG 100, which, due to its specific composition, is used from the chemical industry to construction, from cattle farming to agriculture, to water purification. Furthermore, the CALCITEG

100 can be used as soil acidity correction, if mixed with suitable binders for the consolidation of roadside offices, airports and on-site in general.

Quality & Service

A modern, fully automated production plant ensures high productivity and a constant control over all processes. The quality is guaranteed by daily laboratory checks. Skilled technical staff is available to provide on-site assistance and provide any useful advice for the use.

Fine Po sand

Natural, washed river sand, ϕ size 0-0,6 mm.

Washed sand

Alluvial sand, washed and selected, ϕ size 0-5 mm.

Mezzanella sand

Natural sand, washed and selected, ϕ size 0-3 mm.

Dry sand

Sand from alluvial inerts, washed and selected, ϕ size 0-3 mm.

Pisello gravel

Selected natural alluvial gravel, ϕ size 8-12 mm.

Gravel

Selected natural alluvial gravel, ϕ size 5-20 mm.

Gravel 30

Selected natural alluvial gravel, ϕ max. size 30 mm.

20 Mix

Washed sand mix (ϕ 0-5 mm.) and gravel (ϕ 5-20 mm.).

30 Mix

Washed sand mix (ϕ 0-5 mm.) and gravel (ϕ max. 30 mm.).

Crushed stone 2/4

Fragmentation crushed stone from washed alluvial inerts, ϕ size 2-4 mm.

Crushed stone 4/8

Fragmentation crushed stone from washed alluvial inerts, ϕ size 4-8 mm.

Crushed stone 8/12

Fragmentation crushed stone from washed alluvial inerts, ϕ size 8-12 mm.

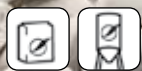
Sarone crushed stone

Fragmentation crushed stone from limestone inerts, ϕ size 12-25 mm.

Calciteg 100

Calcium carbonate obtained by crushing a high-purity limestone ($\text{CaCO}_3 + \text{MgCO}_3 > 99\%$), ϕ size $< 0,15$ mm.

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| PALLADIO INTONACO COCCIOPESTO | Bio-plaster based on natural hydraulic binder | 268 |
| PALLADIO INTONACO FORTE | Sulphate-resistant plaster, based on slaked lime and pozzolanic binders | 267 |
| PALLADIO POROSO | Sulphate-resistant, macroporous plaster, based on slaked lime and pozzolanic agents | 263 |
| PALLADIO RINZAFFO | Sulphate-resistant repair rough cast based on slaked lime and pozzolanic binders | 262 |
| PALLADIO RISANA | Sulphate-resistant, waterproof, breathable plaster, based on slaked lime and pozzolanic binders | 264 |
| PALLADIO TONACHINO | Sulphate-resistant, breathable fine finish, based on slaked lime and pozzolanic binders | 265 |
| PALLADIO TONACHINO COCCIOPESTO | Lime finish based on natural hydraulic lime | 269 |
| PB 25 | Cement-based, light screed | 49 |
| PB 30 | Cement-based, light screed | 50 |
| PENTACALCE | Mineral paint based on slaked lime for exteriors | 179 |
| PK 080 | Highly protective waterproof finishing plaster | 30 |
| PK 125 | Highly protective waterproof finishing plaster | 31 |
| PLASTO GI | Plastic binder for construction | 220 |
| PRG 10 | Primer in emulsion based on synthetic resins | 191 |
| PRG 101 | Primer for the application of gypsum and lime-based plasters onto smooth concrete surfaces | 188 |
| PRG FLEX | Elastic latex in emulsion based on synthetic resin | 190 |
| PRG SL P | Impregnating insulator, pigmented, solvent-based, odour-free, for exteriors | 193 |
| PRG SL T | Consolidating insulator, transparent, solvent-based, odour-free, for exteriors | 192 |
| PRIMER 2W | Water-based transparent siloxane base | 147 |
| PRIMER UNI-KO GM | Universal filler base for thick plasters | 189 |
| PRIMO | Water-based pigmented acrylic base | 127 |
| PRIMO LUX | High coverage base for plasterboard | 129 |
| PZ 16 | Pozzolanic mortar for masonry with exposed concrete, M5 class | 297 |
| QUARZ-ONE | Fine quartz finish for exterior surfaces | 141 |
| QUATTROVELE | Antique mineral silicate canvas for indoor and outdoor | 175 |
| RASOFLEX | Mineral skim plaster for reinforcement cycles | 205 |
| RB 22 | Bio-rough cast with hydraulic curing | 260 |
| REP6 | Odour-free, solvent-based, transparent, siloxanic water-repellent | 198 |
| RETE PER CAPPOTTO | Alkali-resistant fiberglass mesh for coating systems | 116 |
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| RG 15 | Rough coat | 100 |
| SC 30 | Mortar for installation covering | 298 |
| SCAGLIOLA | Gypsum-based powder binder | 218 |
| SEI KO | Detergent solution for cleaning molds- and algae-infested surfaces | 196 |
| SEI NEUTRO | Mineral neutralizer for exterior and interior wall surfaces | 194 |
| SEI OK | Sanitizing and reparator solution for walls | 195 |
| SEI SPECCHIO | Decorative stucco with self-shine finish | 203 |

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| SESTO SENSO | Antique water-based canvas, odourless, for interiors | 200 |
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| SIL4 IN | Potassium-silicate mineral paint for interiors | 170 |
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| SR 31 | Normal-curing, fast-drying traditional screed | 46 |
| STABILMIX | High quality, good workability fine mortar | 32 |
| STIROFLEX | Universal glue and skim-plaster for polystyrene coating cycles | 209 |
| TECNIFOND | Cement mortar, adhesive, with controlled withdrawal, for the construction of micropiles | 242 |
| THERMOG 02 | Mortar for thermal insulation masonry, M5 class | 299 |
| THERMOG 03 | Mortar for thermal insulation masonry, M5 class | 300 |
| THERMOG 021 | Mortar for thermal insulation masonry, high insulation power, M5 class | 301 |
| UNI COPRIX | Structural base for plasterboard | 128 |
| UNICO | Filling and covering interior paint | 133 |
| UNIFLEX | Universal glue and skim-plaster for coating cycles | 208 |
| UNI-KA | Anti-algae, structural finish with average particle size | 142 |
| UNIX | Premixed mortar, cementous, universal, polymer-modified, for skim plastering and/or localized rehabilitation interventions | 244 |
| UNO ANTIMUFFA | Sanitizing breathable paint for interiors | 135 |
| UNO ECO | White paint for interiors | 131 |
| UNO FILL | Anti-algae filling finish for exterior surfaces | 139 |
| UNO FIX | Water-based, transparent, acrylic insulator | 126 |
| UNO IN | Professional mural painting for interior surfaces | 132 |
| UNO LAVABILE | Opaque washable paint for interiors | 137 |
| UNO TEX | Super-covering washable paint for interiors | 136 |
| UNO TRASPIRA | High-coverage, breathable paint for interior surfaces | 134 |
| VENESIX | Decorative finish with a stucco veneziano effect | 202 |
| XIL2 FILL | Anti-algae, acryl-siloxane filling finish for exteriors | 151 |
| XIL2 INTO 0,7-1-1,2-1,5-1,8-2,5 mm | Anti-algae, acryl-siloxane intonachino for exteriors | 154 |
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| GRIGOBIT | Universal acoustic coat, composed from a 3 mm. extruded PE foil (Grigostar) conjoined with an SBS elastomeric membrane | 52 |
| GRIGOCELL ONDA | Closed-cell, expanded polyethylene, CFC and HCFC free, conjoined with aluminated PPE | 53 |
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| AG 04 PROF | Powder superadhesive, cement-based, with enhanced adherence | 67 |
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| PK 125 | Highly protective waterproof finishing plaster | 31 |
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| FG 56 B | Finish plaster for interior and exterior surfaces, white color | 39 |
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| Decorations | | page |
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| PRIMO | Water-based pigmented acrylic base | 127 |
| UNI COPRIX | Structural base for plasterboard | 128 |
| PRIMO LUX | High coverage base for plasterboard | 129 |
| ONE MICRO | Consolidating transparent primer in micro-emulsion | 130 |
| UNO ECO | White paint for interiors | 131 |
| UNO IN | Professional mural painting for interior surfaces | 132 |
| UNICO | Filling and covering interior paint | 133 |
| UNO TRASPIRA | High-coverage, breathable paint for interior surfaces | 134 |
| UNO ANTIMUFFA | Sanitizing breathable paint for interiors | 135 |
| UNO TEX | Super-covering washable paint for interiors | 136 |
| UNO LAVABILE | Opaque washable paint for interiors | 137 |
| MURI ONE | Mural enamel, superwashable, odourless, for interior applications | 138 |
| UNO FILL | Anti-algae filling finish for exterior surfaces | 139 |
| QUARZ-ONE | Fine quartz finish for exterior surfaces | 141 |
| UNI-KA | Anti-algae, structural finish with average particle size | 142 |
| BETON-ONE | Protective anti-algae paint for concrete | 143 |
| ONE COAT 0,7-1-1,2-1,5-1,8-2,5 mm | Anti-algae acrylic intonachino for exterior surfaces | 145 |
| PRIMER 2W | Water-based transparent siloxane base | 147 |
| F2 COPRENTE | Pigmented acryl-siloxane base | 148 |
| XILAN DUEL | Anti-algae, smooth siloxane finish, for exteriors | 149 |
| XIL2 FILL | Anti-algae, acryl-siloxane filling finish for exteriors | 151 |
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| ELAS-TER FIBRO | Fiber-reinforced elastomeric structural base for exterior surfaces | 162 |
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| SIL4 OUT | Potassium-silicate smooth mineral finish for exteriors | 171 |
| SIL4 INTO 0,7-1-1,2-1,5-1,8-2,5 mm | Silicate mineral intonachino | 173 |
| QUATTROVELE | Antique mineral silicate canvas for indoor and outdoor | 175 |
| CINQUETERRE | Decorative mineral paint based on slaked lime | 177 |
| PENTACALCE | Mineral paint based on slaked lime for exteriors | 179 |
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| 5th SPATOLA | Decorative finish with a marmor effect based on slaked lime | 182 |
| 5th MARMO | Decorative finish with a marmor effect based on slaked lime | 184 |
| 5th STILE ANTICO | Mineral decorative intonachino, powder, with travertine effect | 186 |
| PRIMER UNI-KO GM | Universal filler base for thick plasters | 189 |
| PRG SL T | Consolidating insulator, transparent, solvent-based, odour-free, for exteriors | 192 |
| PRG SL P | Impregnating insulator, pigmented, solvent-based, odour-free, for exteriors | 193 |
| SEI NEUTRO | Mineral neutralizer for exterior and interior wall surfaces | 194 |
| SEI OK | Sanitizing and reparator solution for walls | 195 |
| SEI KO | Detergent solution for cleaning molds- and algae-infested surfaces | 196 |
| ESATHERM | Mold-resistant, thermal-insulation, anti-condensation paint for interiors | 197 |
| REP6 | Odour-free, solvent-based, transparent, siloxanic water-repellent | 198 |
| SESTO SENSO | Antique water-based canvas, odourless, for interiors | 200 |
| VENESIX | Decorative finish with a stucco veneziano effect | 202 |
| SEI SPECCHIO | Decorative stucco with self-shine finish | 203 |
| MARMORINO GR 100-200-300 | Precious mineral wall decoration, extra-white | 212 |

| Construction | page |
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| BM 55 | Bio-mortar for masonry, M5 class | 250 |
| BMK 30 | Water-proof, bio-mortar for masonry with exposed concrete, M2.5 class | 251 |
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| MALTA FACCIAVISTA | Water-repellent mortar for masonry with exposed concrete | 273 |
| CALCESTRUZZO R 25 | Traditional structural concrete | 277 |
| MG 40 CLASSE M5 | Masonry mortar, M5 class | 280 |
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| MGK 18 | Water-repellent mortar for masonry with exposed concrete, M5 class | 284 |
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| MG 18 MALTACOLOR G5 "TERRA DI SIENA" | Colored mortar for masonry with exposed concrete, M5 class | 286 |
| MG 28 | Masonry mortar, M5 class | 287 |
| MALTACOLOR G5 "TERRA DI SIENA" | Colored mortar for masonry with exposed concrete, M5 class | 288 |
| MG 182 | Mortar for masonry with exposed concrete, M10 class | 289 |
| MGK 182 | Waterproof mortar for masonry with exposed concrete, M10 class | 290 |
| MG 24 ORE | Delayed curing masonry mortar, M5 class | 291 |
| MG 35 JOLLY | Mortar for masonry and hand plastering, M5 class | 292 |
| MG 00 | Mortar for masonry with exposed concrete, for non-absorbant surfaces, M5 class | 293 |
| MGK 00 | Waterproof mortar for masonry with exposed concrete, for non-absorbant surfaces, M5 class | 294 |
| MG 80 | Cement mortar for masonry group III according to SIA norms | 295 |
| MGK 003 | High mechanical resistance, waterproof mortar for masonry with exposed concrete, for low-absorbant surfaces | 296 |
| PZ 16 | Pozzolanic mortar for masonry with exposed concrete, M5 class | 297 |
| SC 30 | Mortar for installation covering | 298 |
| THERMOG 02 | Mortar for thermal insulation masonry, M5 class | 299 |
| THERMOG 03 | Mortar for thermal insulation masonry, M5 class | 300 |
| THERMOG 021 | Mortar for thermal insulation masonry, high insulation power, M5 class | 301 |

| Traditional products | page |
|----------------------|--|
| CALCE IDRATA | Superventilated hydrated lime |
| MICROCALCE | Micronised calcium hydrate of high purity for special uses (lime flower) |
| PLASTO GI | Plastic binder for construction |

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| CEMENTO TIPO II/A-LL 32,5 R | Type II/A-LL 32,5 R | 221 |
| CEMENTO TIPO II/A-LL 42,5 R | Type II/A-LL 42,5 R | 222 |
| PALLADIO CALCE NATURA | Natural hydraulic lime NHL 3,5 in conformity with the EN 459-1 Standard | 248 |

Restructuring page

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| PALLADIO INTONACO FORTE | Sulphate-resistant plaster, based on slaked lime and pozzolanic binders | 267 |

Micropiles page

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| GEOFOND | Cement mortar, adhesive, with controlled withdrawal, for the construction of micropiles | 243 |

Complementary products page

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| MISTERGRIGO | | 305 |
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| PRG FLEX | Elastic latex in emulsion based on synthetic resin | 190 |
| PRG 10 | Primer in emulsion based on synthetic resins | 191 |

Cement restoration page

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| GALILEO GROUT XF | Plaster mortar with offset withdrawal for the structural restoration of elements in reinforced concrete | 231 |
| GALILEO TIXO XA | Thixotropic mortar with offset withdrawal for the structural restoration of elements in reinforced concrete | 232 |
| GALILEO GROUT XA | Plaster mortar with offset withdrawal for the structural restoration of elements in reinforced concrete | 233 |

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|---------------------------|---|-----|
| GALILEO BLOCK | Plaster mortar with offset withdrawal for the fastening of machinery and structural elements of steel and reinforced concrete | 234 |
| GALILEO PASSIVANTE | Bi-component, anti-corrosion coating with corrosion inhibitor for the protection of concrete reinforcement rods | 235 |
| GALILEO ISI 1050 | Cement mortar, thixotropic, polymer modified, for the in-depth rehabilitation of concrete structures | 236 |
| GALILEO ISI 310 | Cement mortar, thixotropic, polymer modified, for the in-depth shaving of concrete structures | 237 |
| GALILEO RASATURA | Cement mortar, thixotropic, polymer modified, for the shaving of concrete structures | 238 |
| GALILEO ISI RAPID | Cement mortar, thixotropic, polymer modified, fast-curing, for the rehabilitation of concrete structures | 239 |
| GRIGOFLEX | Waterproof coating, bi-component and flexible, based on cement and acrylic polymers, for the treatment of concrete structures and masonry | 240 |
| GRIGOCEM | Waterproof rigid coating, mono-component, based on cement and acrylic polymers, for the treatment of concrete structures and masonry | 241 |
| UNIX | Premixed mortar, cementous, universal, polymer-modified, for skim plastering and/or localized rehabilitation interventions | 244 |

