



PALLADIO® BI 19

Traditional bio base render, based on slaked lime Microcalce CL 90-S.



Product description

PALLADIO BI 19 is a plaster based on slaked lime MICROCALCE CL 90-S by Fornaci Calce Grigolin, high purity micronized hydrated lime (lime flower) CL 90-S according to UNI EN 459-1, selected inert calcium carbonate up to 2,00 mm, with a low content of water-soluble salts, high breathability and controlled shrinkage.

The ratio of the binder MICROCALCE CL 90-S/inert and the choice of the granulometric curve of the aggregates inserted in the product PALLADIO BI 19 guarantee the reduction of shrinkage, a high thixotropy, the optimization of workability and breathability.

The binder MICROCALCE CL 90-S by Fornaci Calce Grigolin is obtained from limestones of suitable chemical and morphological composition, which are cooked in special vertical ovens at a temperature of about 900°C.

Fields of use

PALLADIO BI 19 is a product particularly suitable for the restoration and renovation of the plasters of buildings of historical and monumental interest, as well as for the formation of plasters of new or newly built buildings.

PALLADIO BI 19 can be applied on internal or external masonry in brick, stone, pebbles, tuff.

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 RG

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.

BI 19

12 from Fornaci Calce Grigolin.

PALLADIO BI 19 should not be used on painted or inconsistent and brittle surfaces.

Surface preparation

Before applying the product PALLADIO BI 19, it is recommended to perform a verification of the wall support, taking care to eliminate the possible presence of dust, inconsistent parts, and saline efflorescences. It is also recommended to properly wet the surface before applying the product.

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 PALLADIO BI 19, 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 PALLADIO BI 19, 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 lends itself to the subsequent finishing with the products of the PALLADIO line which must be carried out after an adequate maturation of at least 30 days after the application of the plaster.

Supply and storage

PALLADIO BI 19 is supplied in a 22 m³ silo and in bags, on stretch pallets.

Store in a cool, dry and non ventilated place. Keep packaging intact.

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 PALLADIO BI 19 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.

Warnings

Do not mix PALLADIO BI 19 with other substances. Avoid extreme changes in heat while hardening. The product must be protected from frost and rapid drying.

Avoid using PALLADIO BI 19 when temperatures are below +5°C or above +30°C.

Dop, CE documentation and product safety data sheet are available and downloadable from www.fornacigrigolin.it

BI 19

TECHNICAL DATA	RESULTS
Classification according to UNI EN 998-1	GP-CSII-W2
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	2,0 N/mm ²
Plastic withdrawal	Absent in standard thermohygrometric conditions
Theoretical consumption	approx. 14 kg/m ² per 1 cm thickness
Permeability to water vapour μ	7
Reaction to fire	class A1
Min. application thickness	1,5 cm
Adhesion to brick	0,2 N/mm ²
Fracture type	B
Water absorption	W0
Thermal conductivity	0,38 W/mK (tabulated value)

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