arteMURI®
XIL2 FILL

Quartz filler acrylic-siloxane anti-algae finish for exterior use.

Product description and fields of application

XIL2 FILL is a special micro coating with high coverage and filling, based on acrylic copolymers and siloxanic resins in water dispersion, valuable colored pigments resistant to light and UV rays and special aggregates with selected grain size.
It has excellent characteristics of resistance to alkalis, weathering, considerable resistance to rubbing and washing, low dirt retention and has excellent ease of application and excellent filling power. In particular, it possesses high water vapor permeability combined with low capillary water absorption. In addition, it has a mixture of innovative active biocides resistant to alkaline pH, washout and UV rays that protect the substrate from the proliferation of mold, fungi and algae.
All these features make XIL2 FILL a very high protection and decoration finish suitable for external application on mortar based on lime-hydraulic binder, premixed and traditional plasters, finished as civil and not, and on concrete mixes, both in new buildings and in urban building renovation works.
XIL2 FILL can be tinted with the arteMURI tinting system.

Advantages

high resistance to washing, atmospheric agents and UV rays
excellent breathability and water repellency
retardant and protective film against the proliferation of mold, algae and fungi
excellent coverage

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Specifications

External wall surfaces, such as premixed and traditional mortar plasters based on lime-hydraulic binders, finished as a civil plaster and concrete mixes of various kinds, can be finished with the acrylic-siloxane anti-algae finish with high filling and covering power, high vapour permeability, water repellence and resistance to washing, for exteriors, XIL2 FILL by Fornaci Calce Grigolin, a product based on acrylic and siloxanic binders in water dispersion, light-resistant pigments and selected grain size charges. The minimum consumption of this product is 0.22 l/m2 for two coats.

Consumption and packaging

XIL2 FILL is supplied in 5 l and 15 l packages.
The minimum consumption of this product is 0.22 l/m2 for two coats.

Conservation Standards

Protect from frost. Store at temperatures between +5°C and +30°C in the original sealed containers. Under these conditions the shelf life of the stored product is at least one year.

Substrate preparation

New substrates and/or any repairs (patches) must be cured by at least 4 weeks, clean and dry. Old substrates must be consistent, free of salt efflorescence and loose parts, thoroughly cleaned according to the nature and intensity of the dirt deposited on the surfaces to be treated. To level and fill imperfections such as holes, cracks or crevices, first intervene with a suitable product or repair mortar. Clean up any mold or algae and then sanitize the surface with SEI OK restorer.
On already painted surfaces, make sure of the condition of the film: brush and/or scrape the detaching film, completely remove high layers of non-adherent paints.

Substrate treatment

New plasters: it is recommended to apply one coat of PRIMER 2W.
Plasters with mineral paints (lime or silicates): apply one coat of PRG SL solvent-based fixing agent or PRIMER 2W.
Plasters with synthetic paints (acrylic, siloxanic): apply one coat of PRG SL solvent-based fixing agent or PRIMER 2W. In case of wall surfaces already painted with a dark color that is difficult to cover; choice of a poorly covering color; irregular and non-uniform substrate, it is advisable to apply a first coat of PRIME GRUND 0.3 o GM GRUND 0.5 in white or in the same color as the finish.
Cement/concrete/fibrocement: apply one coat of PRG SL solvent-based fixing agent or PRIMER 2W.

Product preparation

Dilute XIL2 FILL with about 30% by volume of water for the first coat, with 25% by volume of water for the second coat; for roller applications dilute at most with 15% by volume of water. In both cases mix everything well.

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Application

Apply a first coat taking care to distribute the product evenly over the surface. After at least 6-8 hours proceed with the application of the second layer taking care to cross the passes during their drafting.
Withdraw the material necessary for the execution of the work from the same batch. If different batches of product are used, it is advisable to mix them together in order to avoid slight differences in shade. Absolutely avoid the application of different batches on the same surface and finish the wall with a single batch, then resume painting on the wall at the edge with the next batch. Wash tools and equipment with water immediately after use.

Important Warnings

Do not apply with ambient and/or substrate temperature lower than +5°C or higher than +35°C and with relative humidity higher than 75%. Avoid application in presence of superficial condensation, under direct sunlight or strong wind. The adhesion of the product to the substrate is not guaranteed when the application takes place on surfaces that have salt efflorescence or are subject to humidity, so it is necessary a preventive intervention of masonry restoration.

Special Warnings

Respect the climatic conditions of application indicated above and protect the surfaces from rain and humidity for at least 48 hours. This will allow the product to dry completely and polymerize regularly, which occurs within 8-10 days. If, during this period, rain or high humidity events occur (mists and/or superficial condensation, especially in autumn), translucent drippings (so-called “slugs”) could form. This phenomenon does not affect the quality of the product and can be eliminated by hydro-washing or waiting for the next rainfall.

Safety instructions

The product does not require hazard labeling under current regulations. Use the products according to current hygiene and safety regulations. After use, do not dispose of containers in the environment. Let the residues dry well and treat them as special waste. For further information please refer to the safety data sheet.

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TECHNICAL DATA	PERFORMANCE
Binder type	siloxanic and acrylic polymers in water dispersion
Appearance	in rough/pigmented paste
Specific weight(UNI EN ISO 2811-1) 25°C±2	1580 ± 20 g/l
Brookfield viscosity(ASTM D2196) 25°C±2	20.000 ± 2.000 cP
Water vapor permeability and classification (UNI EN ISO 7783-2)	V = 380 g/m^2 24h Class I (high permeability)
Equivalent air layer thickness (UNI EN ISO 7783-2)	Sd = 0,055 m
Liquid water permeability and classification (UNI EN 1062-3)	w24 = 0,090 kg/m^2 h^{0,5} Class III (low permeability)
Suitable for facade protection as it complies with the KÜNZLE theory (DIN 18550) where w24 < 0,5 kg/m2 h0,5 and Sd<2 m	Sd · w24 = 0,005 kg/m h^{0,5}
VOC content (DIR. 2004/42/CE)	Paint for exterior walls of mineral substrate. EU limit values for subcategory c, type BA 40 g/l (2010) This product contains a maximum of 40 g/l of VOCs.
Application	brush, roller
Theoretical consumption	approx. 165 g/m2 per coat (0.11 l/m2)
Theoretical yield	4.5 m2/l in two coats
Overpainting	6-8 hours

v. 10/2024