arteMURI®
ELAS-TER FILL

Anti-algae elastomeric filler finish.

Product description and fields of application

ELAS-TER FILL is a micro fine protective coating based on special elastomeric polymers in water dispersion, which give the product high elasticity even at temperatures as low as -25°C. Compared to traditional elastomeric products, ELAS-TER FILL has a reduced dirt retention, thanks to a self-crosslinking substance that reacts under the action of sunlight increasing the surface hardness without decreasing the elasticity of the finishing film. The product has excellent resistance to atmospheric agents, excellent water repellence and good water vapor permeability and carbon dioxide impermeability. Thanks to the presence of selected mineral fillers, the product has a higher filling power that allows to even out small irregularities of wall surfaces. In addition, it has a mixture of innovative active biocides resistant to alkaline pH, washout and UV rays that protect the support from the proliferation of mold, fungi and algae. ELAS-TER FILL is therefore suitable for the decoration and protection of exterior wall surfaces and for the repair of wall structures with micro-cracks, and can be tinted with the arteMURI tinting system.

Advantages

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

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Specifications

The wall surfaces, such as mortar plaster based on lime-hydraulic binder, premixed and traditional, finished civil and concrete conglomerates of various kinds, can be finished with ELAS-TER FILL elastomeric finishing and anti-algae filler of Fornaci Calce Grigolin, a product based on synthetic polymers in water emulsion, lightfast pigments and siliceous charges of selected grain size. The minimum consumption of this product is 0.26 l/m2 for two coats.

Consumption and packaging

ELAS-TER FILL is supplied in 15-liter packages.
The minimum consumption of this product is 0.26 l/m2 for two coats.

Conservation Standards

Protect against 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. Any micro-cracks must be evaluated and, depending on the case, opened, filled with GRIGOFLEX FIBRA .
Clean up any mold or algae and then sanitize the surface with the restorer SEI OK.
On already painted surfaces make sure of the condition of the film: brush and / or scrape the films in phase of detachment, completely remove high layers of paint not adhering.

Substrate treatment

New plasters: it is recommended to apply one coat of UNO FIX or ONE MICRO.
Plasters with mineral paints (lime or silicates): apply one coat of PRG SL solvent-based fixing agent or ONE MICRO.
Plasters with synthetic paints (acrylic, siloxanic): apply one coat of PRG SL or ONE MICRO solvent-based fixing agent.
Cement/concrete/fibrocement: apply one coat of PRG SL or ONE MICRO solvent-based fixing agent.

In presence of micro-cracks, it is advisable to apply one-two coats of FONDO 03, since the elastic elongation capacity depends directly on the applied thickness. Wait at least 16-24 hours before applying the finish.

Product preparation

For roller application of ELAS-TER FILL on wall structures with micro cracks, use the product diluted with 5% by volume of water with a roller.
If applied by brush, dilute the product to a maximum of 15% for the first coat and 10% for the second.
In both cases mix everything well.

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Application

Apply a first coat taking care to distribute the product evenly on the surface. After at least 16-24 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

Elastic systems generate tensions during their use: they must therefore be well adherent to the substrate and the latter must certainly be strong and with good cohesion. Do not apply on friable, very porous and pure lime-based substrates. Always carry out a correct pre-treatment of the substrate.
Respect the climatic conditions of application indicated above and protect surfaces from rain and humidity for at least 48-96 hours.
The polymerization of elastomeric binders is catalyzed by the UV radiation of sunlight; consequently, it is advisable to be very cautious when applying during seasonal periods when lighting is scarce, and especially on walls less exposed to the sun, since complete polymerization would take a very long time (10-12 days). If, during this period, there are rainy events or events with high humidity (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
Kind of binder	elastomeric acrylic copolymer
Appearance	paste/roughened/pigmented
Specific weight(UNI EN ISO 2811-1) 25°C±2	1360 ± 30 g/l
Brookfield viscosity(ASTM D2196) 25°C±2	14.000 ± 2.000 cP
Water vapor permeability and classification (UNI EN ISO 7783-2)	V = 125 g/m^2 24h Class II (high permeability)
Equivalent air layer thickness (UNI EN ISO 7783-2)	Sd = 0,168 m
Liquid water permeability and classification (UNI EN 1062-3)	w24 = 0,047 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 = 0,08 kg/m h^{0,5}
Particle size (UNI EN ISO 1062-1)	< 0,2 mm
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. 180 g/m2 per coat (0.13 l/m2)
Theoretical yield	3.8 m2/l in two coats
Overpainting	6-8 hours

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