



arteMURI® ELAS-TER



Anti-algae elastomeric thick plaster.
Available in 1.2-1.5 mm grain size.



Innovative VOC- and AOX-free
biocide active ingredient
encapsulation technology

Product description and fields of application

ELAS-TER is a fiber-reinforced protective coating based on special elastomeric polymers in water dispersion, selected pigments and mineral fillers with selected grain size.

The product has a high elasticity even at low temperatures and is therefore suitable for the recovery of wall structures with micro cracks. Compared to traditional elastomeric products, ELAS-TER has a good resistance to atmospheric agents and a reduced dirt retention thanks to the self-crosslinking substance that under the action of sunlight reacts by increasing the surface hardness without decreasing the elasticity of the coating. It also has low water absorption, anti-carbonation properties and good water vapor permeability.

The particular grain size curves give the product a high filling power, a pleasant plaster effect and allow to even out the irregularities of the support.

It also has a mixture of innovative active biocides resistant to alkaline pH, to washout and to UV rays that protect the support from the proliferation of mold, fungus and algae.

The product is particularly suitable on new substrates with lime-based mortar and hydraulic binders, ready-mixed and traditional mortars, finished in civil or not, smoothing and concrete mixes of various kinds.

ELAS-TER can be tinted with the arteMURI tinting system.

ELAS-TER

Advantages

plastering effect
various grain sizes
excellent water repellency
excellent elasticity
retardant and protective film against the proliferation of mold, algae and fungi

Specifications

The wall surfaces, such as mortar plaster based on lime-hydraulic binder, premixed and traditional, finished civil and concrete mixes of various kinds, can be finished with the ELAS-TER elastomeric coating by Fornaci Calce Grigolin, a product based on elastomeric copolymers in water dispersion, pigments and selected charges. When finished, the consumption of this product varies from a minimum of 1.8 kg/m² to a maximum of 3.5 kg/m², depending on the thickness and grain size used.

Consumption and packaging

ELAS-TER is supplied in 25 kg packages.
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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.

Media 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.

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.

Media treatment

New plasters: it is advisable 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 coat of FONDO 03, since the elastic elongation capacity depends directly on the applied thickness. Wait at least 16-24 hours before applying the finish.

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Product preparation

ELAS-TER is ready to use.

If necessary, dilute with a little water until the desired consistency is obtained by slowly mixing the product in its container with a mechanical stirrer.

Application

Spread the product on the surface with a metal spatula taking care to distribute it evenly. Before the product starts spinning, finish with circular movements using the spatula or plastic thalose, until the desired result is obtained.

Withdraw the material necessary for the execution of the work all 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

If the product is used as a finishing coat for thermal insulation system, avoid using dark colors with a luminosity index $Y < 25$ (check the arteMURI color card).

Do not apply with ambient and/or substrate temperature lower than $+5^{\circ}\text{C}$ or higher than $+35^{\circ}\text{C}$ 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 (depending on climatic conditions), to reduce the risk of washouts.

The polymerization of elastomeric binders is catalyzed by the UV radiation of sunlight; consequently, we recommend the utmost caution in applying during seasonal periods when lighting is scarcer, 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.

I dati riportati si riferiscono alle prove di Controllo Qualità in condizioni ambientali normalizzate. Applicazioni pratiche di cantiere a seconda delle condizioni di esercizio possono rilevare dati sensibilmente modificati, pertanto le informazioni presenti nella Scheda hanno valore puramente indicativo in quanto l'utilizzatore deve sempre verificarne l'idoneità nell'impiego del prodotto assumendosi la responsabilità derivante dall'uso. Fornaci Calce Grigolin S.p.A. si riserva di apportare modifiche tecniche di qualsiasi genere senza alcun preavviso.

ELAS-TER

| TECHNICAL DATA | PERFORMANCE |
|--|--|
| Binder type | elastomeric acrylic copolymer |
| Appearance | paste/granular/pigmented |
| Specific gravity(UNI EN ISO 2811-1) 25°C±2 | 1980 ± 20 g/l depending on the grain size |
| Brookfield viscosity(ASTM D2196) 25°C±2 | 130.000 ± 20.000 cP depending on the grain size |
| Water vapor permeability and classification (UNI EN ISO 7783-2) | V = 45 g/m ² 24h Class II (medium permeability) |
| Equivalent air layer thickness (UNI EN ISO 7783-2) | Sd = 0,228 m |
| Vapor Permeability μ | ca. 190 |
| Liquid water permeability and classification (UNI EN 1062-3) | w24 = 0,072 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/m ² h ^{0,5} and Sd < 2 m | Sd · w24 = 0,034 kg/m h ^{0,5} |
| VOC content (DIR. 2004/42/EC) | 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 | Steel and plastic flask |
| Overpainting | 16-48 hours |
| Reaction to fire (EN 13501-1) | A2-s1, d0 |

| GRANULOMETRY | LAYERS | CONSUMPTION | RETURN |
|--------------|----------|---------------------------|------------------------------|
| 1,2 mm | one hand | 1,8-2,2 kg/m ² | 0,45-0,55 m ² /kg |
| 1,5 mm | one hand | 2,8-3.2 kg/m ² | 0,30-0,35 m ² /kg |

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