Filler Premium

Filler Premium is a natural primer, with graphene technology, for *Graphenstone®* white natural paint. It allows to regulate the texture of the substrate, to cover micro-cracks (< 1 mm) and to homogenize repaired or scraped surfaces of old paint. There are two types regarding to granularity: F10 / F20.

PRODUCT DESCRIPTION

Features:

Filler F10: with a granulometry of little particles.
Filler F20: with a granulometry of thicker particles
Regulates the support's absorption and texture.
Homogenizes the surface.
Helps to save material and labour.
Excellent covering power and adherence.
Absorbs CO_2.
Contains high quality lime and graphene fibres.
Breathable. Avoids condensation.
High adherence. Tough and long-lasting.
Free of VOCs and formaldehyde emissions.
Cradle to Cradle Certified™ GOLD.
GreenRate™ LEVEL A

Technical properties:

Specific weight	ISO 2811-1	1.45 ± 0.05 g/cm^3
pH	-	12.5 ± 1
Viscosity	UNE 48076	[90 - 130] U.K.
Solid content	-	65 ± 5 %
Permeability to water vapour	EN 1062-1	Class 1 $S_D < 0.14$ m
Capillary water absorption	EN 1062-1	Class 3 w <0.01 kg/m^2·h^{0,5}
Fire performance	EN 13501-1	A1
Nature	-	Aerated lime
Appearance	-	Dense liquid
Finish	-	Matte
VOC content	ASTM D2369-10	< 1 g/l
VOC emissions	ISO 16000-3/-6	Class A+

Yield:

7-9 m^2/l (1 coat). It depends on the type and condition of the substrate. The exact consumption must be determined by the means of a sampling of the work.

Format:

Available in pots of 1 l, 4 l, 12.5 l, 15 l.

Storage:

Keep in original pack, closed and in a cool and dry place. Keep from freezing and avoid direct sun exposure. Unopened, it may be conserved for at least 12 months from the date of manufacture. The product may thicken without losing its properties; shake well before use.

APPLICATINO INSTRUCTIONS

Application surfaces:

It can be applied on all types of surfaces common in construction: mortar, brick, concrete, old paintings, etc.

Conditions of the substrate:

The substrate must be dry, firm, well-adhered and free from any impurities that may hinder the product from setting fully.

Preparation of the substrate:

If the substrate presents algae, mold, fungi and / or other impurities, it is recommended to do a thorough cleaning, eliminating in its entirety and with specific products for this purpose.

If the substrate has poor adhesion (sandy, dusty, etc.), brush and consolidate with *Minerseal Premium* diluted 3:1 with water.

If the substrate has salt deposits, brush and apply *Neutralysal Premium*.

If the substrate contains a high moisture level, apply *StopWater Premium* diluted 1:1 with water and paint 24 hours before its application.

If the substrate presents surface cracks, the recommendation depends on the width of the crack:

1-3 mm	Apply *Füllmasse Premium* (with a fiberglass mesh if >1 mm).
3-10 mm	Chip superficially and apply *Naturglue Premium* with mesh

| >10 mm | Requires architectural assessment. |

If the substrate presents scaling/blistering of the existing paint, first remove areas that do not adhere by scraping and brushing.

If the substrate presents deterioration of mortar, first remove areas that do not adhere by scraping or pricking and clean up by brushing or plenty of water. The recommendation depends on the damaged depth:

< 3 mm	Apply *Ecoputty Premium*.
3-8 mm	Apply *Naturglue Premium* with mesh.
8-20 mm	Apply *MortarBase Premium* and finish with *MortarFine Premium* (<10 mm) with mesh.
>20 mm	Apply *Naturglue Premium* (5 mm), apply tile according to width of the cavity (1-5 cm) and apply *Naturglue Premium* (<10 mm) with a mesh.

If the substrate presents pathology such as structural cracks, moisture by capillarity, condensation or filtration, etc.; then it is necessary to resolve the structural problems first.

Depending upon the nature of the substrates, the previous actions vary as follows:

- Old glossy paint or putty: clean surfaces and sand slightly.
- Very absorbent substrates (clay, adobe, rammed earth, etc.): apply *Minerseal Premium*.
- If the substrate is wood or metal (without corrosion or oxidation) or without porosity: apply *Four2Four Premium*.

Product preparation:

Stir and dilute with water to 10-15% of the product weight (150-200 ml of water per liter of product approx.), ensure a homogeneous mixture. Avoid excessive shaking to minimize bubble occlusion.

Application method:

Apply one coat evenly. Paint in sections starting with the borders. Do not paint on areas that are drying, avoid overlapping. An excess of product by layers can generate micro-cracks.

Drying:

In conditions of 25 ºC and 60% relative humidity: 4-6 hours to apply *Graphenstone®* natural white paint.

Environmental conditions:

The work temperature (environment and substrate) must be between +5 °C and +32 °C. Do not apply in direct sunlight or on supports heated by the sun.

Tools:

Roller or brush. Airless or other type of projection only for *Filler F10*.

Airless application:

Spray angle: 30º
Spray distance: 50-60 cm
Tip size: 0.027 in.
Minimum strength of machine: 1750 W
Machine filter: 30-40 mesh.

Tool cleaning:

Clean tools after use with warm water.

Notes

The mineral substrate must be at least 28 days old.

The substrates to be painted must be resistant to high alkalinity.

Do not apply to surfaces in constant contact with water.

In case of rain, let the substrate dry before applying.

It is recommended to protect the treated surface from rain until painting.

The parts that are not going to be treated must be protected (glass, wood, etc.).

Should there be strict aesthetic requirements, it is recommended to perform prior tests.

Do not mix with other products or specific properties may change.

Complementary products:

It is recommended to use the *Graphenstone®* product line for complementary actions, according to the

required application, repair and/or finish. Please, refer to the relevant Technical Data Sheets.

DECLARATIONS

The product has the following certifications: Cradle to Cradle Certified™ GOLD, GreenRate™ Level A and Environmental Product Declaration.

The manufacturer declares that the composition of the product, it does not contain hazardous substances and it is free of VOC emissions.

For more information, please refer our website: http://graphenstone.com/Graphenstone-Global-Certificados.html

ADDITIONAL INFORMATION

Usage warnings:

None in particular for normal use and people who do not have special pathologies. Alkaline product, protect skin and eyes especially. Apply with good ventilation, do not inhale product. Keep out of reach of children.

Waste management:

According to local legal provisions. The pots are made of recycled polypropylene. Help protect the environment, do not throw waste through the drain and use the nearest recycling centre.

Responsible gesture:

Minimize the product waste by estimating the amount you will need. Recover the unused mortar to give it a new use, keep it under the Storage section.

Safety information:

For information regarding safety, physical, ecological and toxicological information see the latest version of the product's Material Safety Data Sheet.

Technical support:

For further information, please contact with local distributor or manufacture: technicalsupport@graphenstone.com