

POROMAP FINITURA GRANELLO

Coarse-grained, lime-based, transpirant skimming mortar for a textured finish of de-humidifying renders



WHERE TO USE

Textured skimming of macro-porous de-humidifying render in the repair of old stone, brick and tuff masonry deteriorated by capillary rising damp and soluble salts.

Textured skimming of lime-based render deteriorated by atmospheric agents, environmental conditions and ageing.

Some application examples

- Textured finish on internal/external macro-porous, de-humidifying render with a rough finish and restoration of masonry deteriorated by capillary rising damp and soluble salts.
- Textured finish of rough-finished dehumidifying renders on masonry near the seashore or in lagoon areas.
- Textured finish of new de-humidifying render or old lime-based renders on stone masonry, brickwork, tuff and mixed masonry.

TECHNICAL CHARACTERISTICS

PoroMap Finitura Granello is a ready-mixed textured skimming mortar in powder form made from lime, natural sand and special admixtures with very low emission of volatile organic compounds (EMICODE EC1 Plus) according to a formula developed in MAPEI research laboratories.

The product is classified as GP according to EN 998-1 Standards (*"General purpose mortar for internal/external render"*), category CS III.

When mixed with water in a suitable clean container, **PoroMap Finitura Granello** forms a transpirant skimming and levelling mortar with a plastic consistency and a textured finish which is easy to apply with a flat metal trowel on walls and ceilings. The properties of mortar made from **PoroMap Finitura Granello**, such as mechanical strength and modulus of elasticity, are very similar to the ones of a skimming and levelling mortar made using lime, lime-Pozzolan or hydraulic lime originally used in the construction of old buildings. Typical values are shown in the Technical Data table (see Application Data and Final Performance sections) which refer to the main characteristics of **PoroMap Finitura Granello** at both fresh and hardened state.

RECOMMENDATIONS

- The use of **PoroMap Finitura Granello** is not recommended on structures affected both by the strong presence of capillary rising damp and by significant concentrations of soluble salts (use products from the **Silexcolor** or **Silancolor** ranges).
- Apply **PoroMap Finitura Granello** in layers up to 3 mm thick.
- Do not use **PoroMap Finitura Granello** as mortar to pour into formworks (use instead **Mape-Antique Colabile**).

- Do not use **PoroMap Finitura Granello** to make consolidating slurry for injection into a structure (use **Mape-Antique I**, **Mape-Antique I-15** or **Mape-Antique F21**).
- Do not use **PoroMap Finitura Granello** for rendering.
- Never mix additives, cement or other binders (lime and gypsum) with **PoroMap Finitura Granello**.
- Do not apply thin coats of paint or coloured coating products that could have a high impact on the transpirability of **PoroMap Finitura Granello** and, therefore, obstruct the evaporation of damp from the masonry. Use products from the **Silexcolor** or **Silancolor** ranges, lime-based paints or water-repellent products, such as **Antipluviol S** or **Antipluviol W**.
- Do not apply **PoroMap Finitura Granello** if the temperature is lower than +5°C.

APPLICATION PROCEDURE

Preparation of the substrate

Surfaces to be smoothed and levelled must be clean, sound and free of dust and crumbling areas. Always dampen the surface of the render before applying the skimming and levelling mortar.

Preparation of the product

Prepare **PoroMap Finitura Granello** in a suitable clean container using an electric drill at low-speed with a mixing attachment. Mixing by hand is not recommended. After pouring the minimum amount of clean water required into the container (5 litres per 25 kg bag of **PoroMap Finitura Granello**) slowly add the powdered mortar in a continuous flow. Mix for approximately 3 minutes and check that the blend is well mixed, even and free of lumps and remove any powder that has stuck to the sides or bottom of the container. Add more water if required up to a maximum of 5.5 litres per bag including the water added at the start of mixing. Then mix **PoroMap Finitura Granello** again for a further 2-3 minutes, depending on the efficiency of the mixer, to obtain an even, "plastic" mix.

Application of the product

Spread on a first, even layer up to 3 mm thick of **PoroMap Finitura Granello** with a flat metal trowel. Press down slightly with the spreader to help it adhere and to expel any air entrapped in the porosity of the render. Apply further layers of the product as soon as the previous one starts to set. If **PoroMap Finitura Granello** is used for skimming old lime or cement-based render, we recommend applying the product in two coats, inserting **Mapenet 150** alkali-resistant glass fibre mesh with 4x4.5 mm mesh size, in compliance with ETAG 004 guide. Finish off the surface of **PoroMap Finitura Granello** with a slightly damp sponge float using a rotary movement just before it starts to set. During hot and/or particularly windy weather, take extra care when curing the product.



Application of PoroMap Finitura Granello on cured render



Finishing of PoroMap Finitura Granello with sponge float

FINISHING LAYER

PoroMap Finitura Granello must be fully cured before painting or coating it with other finishing products. Paint the surface with **Silexcolor Paint** or **Silancolor Paint** after applying their corresponding primers. If the render is not going to be painted or coated, especially when it will be exposed to rain, it may be protected with a transparent, transpirant water-repellent product such as **Antipluviol S** (siloxane resin impregnator in solvent) or **Antipluviol W** (siloxane resin impregnator in water dispersion).

CLEANING

Remove the mortar from the tools with water before it hardens. Once hardened, cleaning is more difficult and must be carried out mechanically.

PACKAGING

25 kg bags.

CONSUMPTION

1.3 kg/m² (per mm of thickness).

STORAGE

12 months in a dry, covered area in its original, unopened packaging. This product complies with the prescriptions of Reg. (EC) No. 1907/2006(REACH) - Annex XVII, item 47.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

PoroMap Finitura Granello contains cement that, when in contact with sweat or other body fluids, causes an irritant alkaline reaction and allergic reactions to those subjects predisposed. It can cause damage to eyes. During use wear protective gloves and goggles and take the usual precautions for handling chemicals. If the product comes in contact with the eyes or skin, wash immediately with plenty of water and seek medical attention. For further and complete information about the safe use of our product please refer to the latest version of our Safety Data Sheet.
PRODUCT FOR PROFESSIONAL USE.

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|---|-------------|---|------------------------|
| Poromap Finitura Granello: <i>coarse-grained, lime-based skimming mortar for internal and external use, classified as GP according to EN 998-1 Standards, category CS III</i> | | | |
| TECHNICAL DATA (typical values) | | | |
| PRODUCT IDENTITY | | | |
| Consistency: | | powder | |
| Colour: | | cream white | |
| Maximum size of aggregate (EN 1015-1) (mm): | | 1 | |
| Bulk density (kg/m³): | | 1,300 | |
| EMICODE: | | EC1 Plus - very low emissions | |
| APPLICATION DATA (at +20°C - 50% R.H.) | | | |
| Mixing ratio: | | 100 parts of PoroMap Finitura Granello with 20-22 parts of water (5-5.5 l of water per 25 kg bag of product) | |
| Consistency of mix: | | thixotropic - trowellable | |
| Bulk density of wet mortar (EN 1015-6) (kg/m³): | | 1,550 | |
| Application temperature: | | from +5°C to +35°C | |
| Workability time of wet mortar (EN 1015-9): | | approx. 60 mins. | |
| Max. thickness per layer (mm): | | 3 | |
| FINAL PERFORMANCES - 21% mixing water; mixing according to EN 1015-2 | | | |
| Performance characteristic | Test method | Requirements according to EN 998-1 | Performance of product |

| | | | |
|---|------------|---|--------------------------------|
| Compressive strength after 28 days (N/mm ²): | EN 1015-11 | CS I (from 0.4 to 2.5) | (Category CS III) |
| | | CS II (from 1.5 to 5) | |
| | | CS III (from 3.5 to 7.5) | |
| | | CS IV (≥ 6) | |
| Adhesion to substrate (N/mm ²): | EN 1015-12 | declared value and failure pattern (FP) | ≥ 0.5 Failure pattern (FP) = B |
| Capillary action water absorption [kg/(m ² ·min ^{0.5})]: | EN 1015-18 | W _c 0 (not specified) | Category W _c 1 |
| | | W _c 1 (C ≤ 0.40) | |
| | | W _c 2 (C ≤ 0.20) | |
| Coefficient of permeability to water vapour (μ): | EN 1015-19 | declared value | ≤ 15 |
| Thermal conductivity (λ _{10, dry}) (W/m·K): | EN 1745 | chart value | 0.42 (P = 50%) |
| Reaction to fire: | EN 13501-1 | Euroclass | A1 |

WARNING

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product.

Please refer to the current version of the Technical Data Sheet, available from our website www.mapei.com

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