



PoroMap Finitura

**Salt-resistant,
fine-texture transpirant
skimming mortar, based
on lime, for a natural
finish on render**



WHERE TO USE

Natural finish skim coats on macro-porous, de-humidifying render when restoring masonry on existing stone, brick and tuff buildings damaged by capillary rising damp and soluble salts.
Natural finish skim coats on transpirant base render.
Natural finish skim coats on lime-based render damaged by atmospheric agents, environmental conditions or ageing.

Some application examples

- Natural finish on internal/external coarse-textured, de-humidifying and insulating, macro-porous render when restoring masonry damaged by capillary rising damp and soluble salts.
- Natural finish on coarse-textured de-humidifying render on masonry in lagoon areas or close to the sea.
- Natural finish on new de-humidifying render or existing lime-based render on stone, brick, tuff and mixed masonry, including on buildings of historical and artistic interest.
- Natural finish on coarse-textured transpirant base render.

TECHNICAL CHARACTERISTICS

PoroMap Finitura is a ready-mixed, fine-textured, cement free, powdered skimming mortar made from lime, fine natural sand and special additives with very low emission of volatile organic compounds (EMICODE EC1 R Plus) according to a formula developed in the MAPEI research laboratories.

This product is classified as GP according to EN 998-1 Standards: “*General purpose mortar for internal/external render*”, Category CS IV.

When mixed with water in a suitable clean container, **PoroMap Finitura** forms a salt-resistant, natural-finish, transpirant skimming mortar with a plastic consistency which is easy to apply with a flat metal smoothing trowel both on vertical surfaces and ceilings.

The properties of a mortar made with **PoroMap Finitura**, such as mechanical strength, modulus of elasticity and porosity, are very similar to those of a skimming mortar made using lime, lime-pozzolan or hydraulic lime as originally used in the construction of old buildings.

Compared with these types of mortar, however, **PoroMap Finitura** has properties which makes it resistant to various aggressive chemical-physical phenomena, such as soluble salts, freeze-thaw cycles, the leaching action of rainwater, alkali-aggregate reactions and the formation of cracks caused by plastic shrinkage.

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** at both the wet and hardened states.

RECOMMENDATIONS

- **PoroMap Finitura** is not recommended for structures with a high level of capillary rising damp or high concentrations of soluble salts (use products from the **Silexcolor** or **Silancolor** ranges).
- **PoroMap Finitura** must be applied in 2 mm layers for each coat.

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Finishing off the surface of PoroMap Finitura with a sponge float

- Do not use **PoroMap Finitura** for pouring into formwork (use **Mape-Antique Hi-Flow**).
- Do not use **PoroMap Finitura** to make consolidating slurry to inject into structures (use **Mape-Antique I**, **Mape-Antique I-15** or **Mape-Antique F21**).
- Do not use **PoroMap Finitura** for rendering.
- Never add additives, cement or other binders (lime and gypsum) to **PoroMap Finitura**.
- Do not apply thin coats of coloured paint or coating products which could affect the transpiration properties of **PoroMap Finitura** and, therefore, obstruct the evaporation of moisture in the masonry. Use products from the **Silexcolor** or **Silancolor** ranges, lime-based paint or water-repelling products, such as **Antipluviol S** or **Antipluviol W**.
- Do not apply **PoroMap Finitura** if the temperature is lower than +5°C.

APPLICATION TECHNIQUE

Preparation of the substrate

The surfaces to be skimmed must be clean, sound and free of dust and crumbling portions. Before skimming render always wet the substrate.

Preparation of the product

Prepare **PoroMap Finitura** 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 (6 litres per 25 kg bag of **PoroMap Finitura**), 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 6.5 litres per bag including the water added at the start of mixing.

Then mix **PoroMap Finitura** 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 of **PoroMap Finitura** up to 2 mm thick for each coat with a flat, metal smoothing trowel. Press down slightly with the trowel to help the mortar adhere and to expel any air entrapped in the pores of the render. Apply further layers of the product as soon as the previous skim coat starts to set. Finish off the skimming mortar by going over the surface with a damp sponge float with a rotary movement just before the mortar starts to set. During hot and/or particularly windy weather, take special care when curing the mortar. Spray water on the surface or employ other systems

to prevent the water evaporating off too quickly.

Even though **PoroMap Finitura** may be applied on any type of macro-porous de-humidifying render, we advise against applying it on structures with a high level of capillary rising damp or high concentrations of soluble salts. The fine-textured finish of the product tends to reduce the porosity of the surface of the render slightly, especially in the case of de-humidifying render, where it is important that the levels of transpiration and porosity remain high to help the moisture present in the masonry evaporate. In such cases it is better to use silicate-based **Silexcolor Tonachino** or siloxane-based **Silancolor Tonachino**, coloured coating products applied in thin coats after applying their corresponding primers (**Silexcolor Primer** or **Silancolor Primer**).

FINISHING THE SURFACE

PoroMap Finitura may only be painted or coated with other finishing products once it is completely cured. 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 on constructions particularly exposed to rain, the surface may be protected with a transparent, transpirant, water-repellent product such as **Antipluviol S** siloxane resin-based impregnator in solvent or **Antipluviol W** siloxane resin-based impregnator in water dispersion.

Cleaning

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

PACKAGING

25 kg bags.

CONSUMPTION

1.4 kg/m² (per mm of thickness).

STORAGE

12 months in a dry, covered area in its original, unopened packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

PoroMap Finitura is corrosive and may damage the eyes. It is recommended to use protective gloves and goggles and to take the usual precautions for the handling of 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 Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Type of mortar (EN 998-1):	GP - General purpose mortar for internal/external render
Consistency:	powder
Colour:	creamy white
Maximum size of aggregate (EN 1015-1) (mm):	0.4
Bulk density (kg/m ³):	1,200
EMICODE:	EC1 R Plus - very low emission

APPLICATION DATA (at +20°C - 50% R.H.)

Mixing ratio:	100 parts of PoroMap Finitura with 24-26 parts of water (6-6.5 litres of water per 25 kg bag of product)
Consistency of mix:	plastic
Density of wet mortar (EN 1015-6) (kg/m ³):	1,800
Application temperature:	from +5°C to +35°C
Workability time of wet mortar (EN 1015-9):	approx. 60 mins.
Maximum applicable thickness per layer (mm):	2

FINAL PERFORMANCE: 25% mixing water; mixed in compliance with EN 1015-2 standards

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)	10 (Category CS IV)
		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 mode (FP)	≥ 0.6 Failure mode (FP) = B
Capillary action water absorption [kg/(m ² ·min ^{0.5})]:	EN 1015-18	W 0 (not specified)	Category W 2
		W 1 (C ≤ 0.40)	
		W 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	0.67
Reaction to fire:	EN 13501-1	value declared by manufacturer	Class E
Resistance to sulphates:	Anstett test	not required	high
Saline efflorescence (after semi-immersion in water):	/	not required	absent

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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



This symbol is used to identify Mapei products which give off a low level of volatile organic compounds (VOC) as certified by GEV (Gemeinschaft Emissionskontrollierte Verlegewerkstoffe, Klebstoffe und Bauprodukte e.V.), an international organisation for controlling the level of emissions from products used for floors.



Our Commitment To The Environment
MAPEI products assist Project Designers and Contractors create innovative LEED (The Leadership in Energy and Environmental Design) certified projects, in compliance with the U.S. Green Building Council.

**All relevant references
for the product are available
upon request and from
www.mapei.com**



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