

# POROMAP FINITURA CIVILE

Fine-grained, lime-based, breathable skimming mortar for a natural finish of de-humidifying renders



## WHERE TO USE

Natural skimming of macroporous de-humidifying render, repair of masonry deteriorated by capillary rising damp and soluble salts, of old stone, brick and tuff masonry.

Natural skimming of breathable base render.

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

## Some application examples

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

## TECHNICAL CHARACTERISTICS

**PoroMap Finitura Civile** is a ready-mixed fine-grained skimming mortar in powder form made from lime, fine natural sand and special admixtures with very low emission of volatile organic compounds (EMICODE ECT 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 II.

When mixed with water in a suitable clean container, **PoroMap Finitura Civile** forms a breathable skimming and levelling mortar with a plastic consistency and a natural finish which is easy to apply with a flat metal trowel on walls and ceilings. The properties of mortar made from **PoroMap Finitura Civile**, 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 Civile** at both fresh and hardened state.

## RECOMMENDATIONS

- The use of **Poromap Finitura Civile** 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 Civile** in layers up to 2 mm thick.
- Do not use **Poromap Finitura Civile** as mortar to pour into formworks (use instead **Mape-Antique Colabile**).
- Do not use **Poromap Finitura Civile** 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 Civile** for rendering.
- Never mix additives, cement or other binders (lime and gypsum) with **Poromap Finitura Civile**.
- Do not apply thin coats of paint or coloured coating products that could have a high impact on the breathability of **Poromap Finitura Civile** 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 Civile** if the temperature is lower than +5°C.

## APPLICATION PROCEDURE

### Preparation of the substrate

Surfaces to be skimmed 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 Civile** 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 (7 litres per 25 kg bag of **Poromap Finitura Civile**) 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 7.75 litres per bag including the water added at the start of mixing. Then mix **Poromap Finitura Civile** 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 2 mm thick of **Poromap Finitura Civile** with a flat metal trowel. Press down slightly with the trowel 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 Civile** 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 4 x 4.5 mm mesh size, in compliance with ETAG 004 guide. Finish off the surface of **Poromap Finitura Civile** 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. **Poromap Finitura Civile** may be applied on macroporous de-humidifying render, nonetheless, the application on substrates subject to high levels of capillary rising damp and very high concentration of soluble salts is not recommended. The fine-grained consistency of the product can slightly reduce the surface porosity of render and, especially in case of de-humidifying render, high levels of breathability and porosity are fundamental to encourage evaporation of humidity in the masonry. For structures with a high level of capillary rising damp and high concentrations of soluble salts, it is preferable to use low thickness coloured coatings from the **Silexcolor** (silicate-based) or **Silancolor** (siloxane-based) ranges, after applying the respective primers **Silexcolor Primer** or **Silancolor Primer**.



Application of PoroMap Finitura Civile on cured render



Finishing of PoroMap Finitura Civile with sponge float

## FINISHING LAYER

**PoroMap Finitura Civile** 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, breathable water-repellent product such as **Antipluvial S** siloxane resin impregnator in solvent or **Antipluvial 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/m<sup>2</sup> (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 Civile** 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.

**Poromap Finitura Civile: fine-grained, lime-based skimming mortar for internal and external use, classified as GP according to EN 998-1 Standards, category CS II**

TECHNICAL DATA (typical values)

PRODUCT IDENTITY			
Consistency:		powder	
Colour:		cream white	
Maximum size of aggregate (EN 1015-1) (mm):		0.4	
Bulk density (kg/m³):		1,200	
EMICODE:		EC1 Plus - very low emissions	
APPLICATION DATA (at +20°C - 50% R.H.)			
Mixing ratio:		100 parts of <b>PoroMap Finitura Civile</b> with 28-31 parts of water (7-7.75 l of water per 25 kg bag of product)	
Consistency of mix:		thixotropic - trowellable	
Bulk density of wet mortar (EN 1015-6) (kg/m³):		1,700	
Application temperature:		from +5°C to +35°C	
Workability time of wet mortar (EN 1015-9):		approx. 60 mins.	
Max. thickness per layer (mm):		2	
FINAL PERFORMANCES - 29% 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/mm²):	EN 1015-11	CS I (from 0.4 to 2.5)	(Category CS II)
		CS II (from 1.5 to 5)	
		CS III (from 3.5 to 7.5)	
		CS IV (≥ 6)	
Adhesion to substrate (N/mm²):	EN 1015-12	declared value and failure pattern (FP)	≥ 0.5 Failure pattern (FP) = B
Capillary action water absorption [kg/(m²·min <sup>0.5</sup> )]:	EN 1015-18	W <sub>c</sub> 0 (not specified)	Category W <sub>c</sub> 0
		W <sub>c</sub> 1 (C ≤ 0.40)	
		W <sub>c</sub> 2 (C ≤ 0.20)	
Coefficient of permeability to water vapour (μ):	EN 1015-19	declared value	≤ 15
Thermal conductivity (λ <sub>10, dry</sub> ) (W/m·K):	EN 1745	chart value	0.45 (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](http://www.mapei.com)**

## LEGAL NOTICE

*The contents of this Technical Data Sheet ("TDS") may be copied into another project-related document, but the resulting document shall not supplement or replace requirements per the TDS in force at the time of the MAPEI product installation.*

*The most up-to-date TDS can be downloaded from our website [www.mapei.com](http://www.mapei.com).*

**ANY ALTERATION TO THE WORDING OR REQUIREMENTS CONTAINED OR DERIVED FROM THIS TDS EXCLUDES THE RESPONSIBILITY OF MAPEI.**

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