



Mape-Antique FC Grosso



**Salt-resistant,
large-grained lime
and Eco-Pozzolan,
transpirant skimming
mortar for a rough
finish on render**

WHERE TO USE

Large-grained, macro-porous, de-humidifying skimming mortar for repairing old masonry deteriorated by the presence of capillary rising damp and soluble salts, including on buildings of historical and artistic interest.

Large-grained skimming mortar for transpirant or “structural” base render.

Large-grained skimming mortar for lime-based render deteriorated by the action of atmospheric agents and environmental conditions or by ageing.

Some application examples

- Rough finishing internal/external de-humidifying, macro-porous render when repairing masonry deteriorated by the presence of capillary rising damp and soluble salts.
- Rough finishing de-humidifying render on masonry in lagoon areas or close to the sea.
- Rough finishing new de-humidifying render or old lime-based render on stone, brick, tuff and mixed masonry, including on buildings of historical and artistic interest with a conservation order or under the protection of the National Trust.
- Rough finishing transpirant or “structural” base render.

TECHNICAL CHARACTERISTICS

Mape-Antique FC Grosso is a pre-blended, large-grained, cement-free skimming mortar in powder form made from lime, Eco-Pozzolan, natural

sand and special additives with very low emission level of volatile organic compounds (EMICODE EC1 R), according to a formulation developed in MAPEI’s 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, **Mape-Antique FC Grosso** forms a salt-resistant, large-grained, transpirant skimming mortar with a plastic consistency which is easy to apply with a flat metal trowel on both vertical surfaces and on ceilings. The properties of a mortar made from **Mape-Antique FC Grosso**, such as mechanical strength, modulus of elasticity and vapour permeability, are very similar to the ones of a skimming mortar made using lime, lime-pozzolan or hydraulic lime originally used in the construction of old buildings.

Compared with these types of mortar, however, **Mape-Antique FC Grosso** also has properties which make the product resistant to various chemical-physical aggressive phenomena, such as the presence of 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 **Mape-Antique FC Grosso** at both fresh and hardened states.

Mape-Antique FC Grosso



Application of
Mape-Antique
FC Grosso



Application of
Mape-Antique
FC Grosso



Finishing the surface
of Mape-Antique FC
Grosso with a sponge
float

RECOMMENDATIONS

- Wait until the render is completely cured before applying **Mape-Antique FC Grosso**.
- **Mape-Antique FC Grosso** must be applied in max 3 mm layers for each coat.
- Do not use **Mape-Antique FC Grosso** for casting into formwork (use **Mape-Antique LC** mixed with aggregates with a suitable grain size).
- Do not use **Mape-Antique FC Grosso** to make a consolidating slurry for injection into structures (use **Mape-Antique I** or **Mape-Antique F21**).
- Do not use **Mape-Antique FC Grosso** for rendering.
- Never add additives, cement or other binders (lime and gypsum) to **Mape-Antique FC Grosso**.
- Do not apply thin coats of paint or coloured coatings which could have a significant impact on the transpiration properties of **Mape-Antique FC Grosso** and, therefore, obstruct the evaporation of damp in the masonry. Use products from the **Silexcolor** or **Silancolor** ranges, lime-based paint and water-repelling products such as **Antipluviol S** or **Antipluviol W**.
- Do not apply **Mape-Antique FC Grosso** if the temperature is lower than +5°C.

APPLICATION PROCEDURE

Preparation of the substrate

The surfaces to be skimmed must be clean, sound and free of dust and crumbling elements. We also recommend that the surface of the new render is planed with a metal-tipped cutter to remove any surface laitance and make it easier for the skimming compound to bond and prevent the formation of air bubbles. Before skimming render, always wet the substrate.

Preparation of the product

Prepare **Mape-Antique FC Grosso** in a suitable clean container using a low-speed electric drill with a mixing attachment. Mixing of the product by hand is not recommended. After pouring the minimum amount of clean water required into the mixer (4.5 litres per 25 kg bag of **Mape-Antique FC Grosso**), 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 that no material has stuck to the sides and base of the container. Add a further amount of water if required up to a total of 5 litres per bag, including the water added at the start of mixing. Then mix the **Mape-Antique FC Grosso** again for further 2-3 minutes according to the efficiency of the mixer to obtain an even, "plastic" blend.

Application of the product

Spread on a first, even layer of **Mape-Antique FC Grosso** up to 3 mm thick for each coat with a flat, metal trowel. Press down slightly with the trowel to help the mortar bond and to help to expel any air entrapped in the porosity of the render. Apply further layers of the product as soon as the previous skimming layer starts to set.

If **Mape-Antique FC Grosso** is used to skim over existing lime or lime/cement-based render, we recommend applying two layers with 4x4.5 mm **Mapenet 150** alkali-resistant glass fibre mesh placed between the first and second layer, in compliance with ETAG 004 guidelines. The surface of **Mape-Antique FC Grosso** may be finished with a slightly damp sponge float using a rotary movement before the product starts to set. During hot and/or particularly windy weather, take special care when curing the mortar.

FINISHING COAT

Mape-Antique FC Grosso must only be applied over render once it is completely cured.

The surface of **Mape-Antique FC Grosso** may only be painted or coated with other finishing products once the skimming compound has completely cured. Paint the surface with **Silexcolor Paint** or **Silancolor Paint** after applying primers of the **Silexcolor Primer** or **Silancolor Primer** range.

For constructions particularly exposed to rain, if the render does not require any coating, it may be protected with a transparent water-repellent product such as **Antipluviol S**, siloxane resin impregnator in solvent or **Antipluviol W**, siloxane resin impregnator in water dispersion.

Cleaning

The mortar may be removed from tools with water before it hardens. Once hardened, cleaning is difficult and must be carried out mechanically.

PACKAGING

25 kg bags.

COLOUR

White.

CONSUMPTION

Approx. 1.4 kg/m² (per mm of thickness).

STORAGE

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

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Mape-Antique FC Grosso contains special hydraulic binders, which in contact

TECHNICAL DATA (typical values)

PRODUCT IDENTITY

Type of mortar (EN 998-1):	GP: "General purpose mortar for internal/external render"
Appearance:	powder
Colour:	white
Maximum size of aggregate (EN 1015-1) (μm):	700
Bulk density (kg/m^3):	1,300
EMICODE:	EC1 R - very low emission

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

Mixing ratio:	100 parts of Mape-Antique FC Grosso with 18-20 parts of water (4.5-5 litres of water per 25 kg bag of product)
Appearance of blend:	plastic
Bulk density of fresh mortar (EN 1015-6) (kg/m^3):	1,700
Application temperature range:	from +5°C to +35°C
Workability time of fresh mortar (EN 1015-9):	approx. 60 minutes
Maximum applicable thickness (mm):	3

FINAL PERFORMANCE (19% mixing water)

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)	6 (Category CS IV)
		CS II (from 1.5 to 5.0)	
		CS III (from 3.5 to 7.5)	
		CS IV (≥ 6)	
Bond strength to substrate (N/mm^2):	EN 1015-12	declared value and Failure mode (FP)	≥ 0.5 Failure mode (FP) = B
Capillary action water absorption [$\text{kg}/(\text{m}^2 \cdot \text{min}^{0.5})$]:	EN 1015-18	from Category W 0 to Category W 2	Category W 2
Coefficient of permeability to water vapour (μ):	EN 1015-19	declared value	≤ 15
Thermal conductivity ($\lambda_{10,\text{dry}}$) ($\text{W}/\text{m}\cdot\text{K}$):	EN 1745	tabulated value	0.45
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



Finishing the surface of Mape-Antique FC Grosso with a sponge

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with sweat or other body fluids may cause corrosion and damage to the 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 clean water and seek medical attention.

For further and complete information about the safe use of our product please refer to our latest version of the Material Safety Data Sheet.

PRODUCT FOR PROFESSIONAL USE.

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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