



Mape-Antique FC and Mape-Antique FC/R

**Cement-free fine mortars
for the fine finishing
of dehumidifying renders
on stone, brick
and tuff masonry**



WHERE TO USE

Mape-Antique FC and **Mape-Antique FC/R** are fine mortars, light-coloured and light pink respectively, to be applied on coarse textured dehumidifying renders for repairing stone, brick and tuff buildings, also historical structures, that have been damaged by rising damp.

Some application examples

- Finishing internal and external **Mape-Antique LC**, **Mape-Antique MC** and **Mape-Antique CC** dehumidifying mortars.
- Levelling **Mape-Antique LC**, **Mape-Antique MC** or **Mape-Antique CC** dehumidified mortars with the existing finishing layer.
- Surface finishing of coarse textured rendering for stone, brick or masonry buildings and historical buildings (masonry, columns, vaults, etc.).

TECHNICAL CHARACTERISTICS

Mape-Antique FC or **Mape-Antique FC/R** are totally cement-free light-coloured or light pink powder mixtures of special hydraulic binders and fine natural sand. **Mape-Antique FC** can be coloured during mixing, if necessary, using conventional iron oxides available on the market for pigmenting cement based products.

The **Mape-Antique FC/R** technical characteristics and application procedures do not differ from

those of **Mape-Antique FC**.

When mixed with water, **Mape-Antique FC** or **Mape-Antique FC/R** produce a plastic paste for easy and effective application as a finishing coat over rendering in historical buildings.

Mape-Antique FC and **Mape-Antique FC/R** are in compliance with the Italian law No. 595, dated 26/05/1965, "Technical characteristics and requirements of hydraulic binders" and with the Italian Ministerial Decree dated 31/08/1972 "Norms on the acceptability requirements and testing methods of cementitious aggregates and hydraulic limes" therefore they can be defined as hydraulic lime based.

After 24 hours the concentration of lime in **Mape-Antique FC** or **Mape-Antique FC/R** is insignificant, while in conventional binders on the market the level of free lime remains high for years.

Mortars prepared with **Mape-Antique FC** or **Mape-Antique FC/R** are very similar to the old mortars based on lime, pozzolan-lime, or hydraulic lime originally used in the construction of historical buildings in terms of colour, mechanical strength, modulus of elasticity and porosity.

Compared to the original mortars, however, mortars from the **Mape-Antique** range possess a durability that make them virtually indestructible in the face of natural aggression: acid rain, freeze-thaw cycles,

Mape-Antique FC Mape-Antique FC/R



Applying
Mape-Antique FC
with a trowel



Finishing
Mape-Antique FC
with a sponge



Finishing
Mape-Antique FC
with a float sponge

cracks caused by plastic shrinkage, alkali-aggregate reaction, and above all, attack by sulphate salts often present in masonry.

The **Mape-Antique** range of mortars has the porosity and breathable properties of antique lime and pozzolan based mortars. This allows a slow and constant draining of rising damp.

RECOMMENDATIONS

- Do not use **Mape-Antique FC** or **Mape-Antique FC/R** as a consolidating slurry to be injected (use **Mape-Antique I** or **Mape-Antique F21**).
- Do not use **Mape-Antique FC** or **Mape-Antique FC/R** for preparing coarse textured rendering.
- Do not add cement, other binders (lime or gypsum) or additives to **Mape-Antique FC** or **Mape-Antique FC/R**.
- Do not finish the **Mape-Antique FC** or **Mape-Antique FC/R** surface with paints that could interfere with moisture evaporation (use **Silexcolor Paint**, **Silexcolor Tonachino**, **Silexcolor Marmorino**, lime or siloxane paints, **Antipluvial S**).
- Do not apply **Mape-Antique FC** or **Mape-Antique FC/R** at temperatures below +5°C.
- Apply **Mape-Antique FC** or **Mape-Antique FC/R** on clean substrates.

APPLICATION PROCEDURE

Before applying the **Mape-Antique FC** or **Mape-Antique FC/R**, the coarse textured **Mape-Antique LC**, **Mape-Antique MC** or **Mape-Antique CC** render must be saturated with water. Excess water should be removed with compressed air. As an alternative, the **Mape-Antique FC** or **Mape-Antique FC/R** can be applied over the wet layer of render underneath as soon as the latter has begun to set.

To prepare the mortar pour **Mape-Antique FC** or **Mape-Antique FC/R** into an ordinary mixer with approximately 5.75 litres of water per bag of product.

Mix well for 3 minutes, scraping any unblended powder from the sides and blades of the mixer.

If necessary add more water (do not exceed a maximum of 6 litres per bag of powder). Mix again for another 3 minutes.

The mortar obtained can be applied from 0 to several millimetres thick with a metal float or trowel.

After levelling, it is recommended to finish the coat with a sponge float as soon as **Mape-Antique FC** or **Mape-Antique FC/R** begins to set.

It is not recommended to use **Mape-Antique FC** or **Mape-Antique FC/R** when the structure has strong rising damp and in the presence of high concentrations of soluble salts. In these cases it is recommended to finish with **Silexcolor Tonachino** or **Silexcolor Marmorino**, silicate based coverings available in 34 colours.

Mortars levelled with **Mape-Antique FC** or **Mape-Antique FC/R** can be painted with **Silexcolor Paint**, silicate based paint available in 34 colours.

For surfaces especially exposed to rain and that do not require tinting, masonry can be protected with a transparent breathable treatment using **Antipluvial S**, a water repellent siloxane resin based primer.

CONSUMPTION

1.45 kg/m² per mm of thickness.

Cleaning

Before hardening, the mortar can be removed from tools with water. Afterwards cleaning is very difficult and can only be carried out mechanically.

PACKAGING

25 kg bags.

STORAGE

12 months in a dry and sheltered place in original sealed packaging.

SAFETY INSTRUCTIONS FOR PREPARATION AND APPLICATION

Contains special hydraulic binders that when in contact with sweat or any other body fluids produce an alkaline reaction irritant to the eyes and skin.

Wear protective gloves and goggles.

For further information refer to the Safety Data Sheet.

FOR PROFESSIONALS.

WARNING

Although the technical details and recommendations contained in this product report 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 applications; 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.

**All relevant references
of the product are available
upon request**

TECHNICAL DATA (typical values)	
PRODUCT IDENTITY	
Consistency:	powder
Colour:	light-coloured
Bulk density (kg/m³):	1400
Maximum diameter (mm):	0.3
Storage:	12 months in original sealed packaging in a dry place
Hazard classification according to EC 99/45:	irritant. Before using refer to the "Safety instructions for the preparation and application" paragraph and the information on the packing and Safety Data Sheet
Customs class:	3824 50 90
FINAL PERFORMANCES IN MORTAR at +23°C - 50% R.H.	
Determined by mixing the product with water in a laboratory mixer. Mix ratio:	one 25 kg bag with 5.75-6 litres of water
Composition (kg/m³): – Mape-Antique FC: – water:	approx. 1420 approx. 334
Mass density of the mix (kg/m³):	1650-1850
Flow (%) (UNI 7044):	80-100
Compressive strength (N/mm²): – 7 days: – 28 days:	4-6 8-10
Flexural strength (N/mm²): – 7 days: – 28 days:	0.5-1.0 1-1.5
Dynamic modulus of elasticity (N/mm²): – 7 days: – 28 days:	5000-6000 8000-9500
Efflorescence (semi-immersion in water):	absent
Resistance to sulphates (%): (expansion after 30 days of specimens 40x40x160 mm cured for 28 days with R.H. = 95% and T = +20°C and immersed in sulphate solution 10% of Na ₂ SO ₄):	< 0.02
Colour: – Mape-Antique FC: – Mape-Antique FC/R:	white light pink

* The table above shows some typical values of the finishing mortar produced with **Mape-Antique FC** at the fresh stage and hardened. The technical data and final performances of **Mape-Antique FC/R** are identical to those indicated for **Mape-Antique FC**.

Mape-Antique FC
Mape-Antique FC/R



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