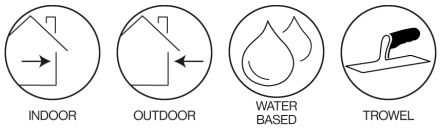
malta modellabile

technical sheet - ed. 07/2024



Lime-based fibre-reinforced thixotropic mortar for reconstruction

DESCRIPTION

Fast setting, low elastic modulus pre-mixed fibre-reinforced mortar. Can be promptly moulded and shaped, allowing perfect reconstruction of cornices, mouldings, capitals and friezes. Highly thixotropic and anti-shrinkage. Particularly suited for repairs to historic buildings and monuments. For indoor and outdoor use.

MAIN PROPERTIES

- Mouldable;
- Quick-setting

TECHNICAL DATA	
Classification (UNI 8681 / UNI 8682)	One-pack, physical drying, hydraulic lime-based powdered base coat mortar, matt finish.
Granulometry (EN 13300 / EN 1062)	1.2mm
Reaction to fire (EN 13501-1)	Class A1
Capillary absorption and perm. Water (class W) (EN 1015-18)	Class W0
Adhesion (EN 1015-12)	0.8 N/mm² - FP:B
Open time (EN 1346)	15 min
Thermal conductivity (λ) (EN 1745)	0.71 W/mK
Water vapour transmission (μ) (EN 1015-19)	< 35
Bending resistance	28 gg: 2.4 N/mm2
Compression resistance	28 gg: 7.0 N/mm2 Class CS IV
Apparent bulk volume	1400 ± 50 g/l
Bulk volume in paste	1800 ± 50 g/l
	>12
Type of binder	Hydraulic lime (UNI 8681: SA)
Solid content	100%
Mixing Ratio	22% with water; 5.5 Litres per 25Kg package
Maximum application thickness	Minimum thickness: 1 cm Maximum thickness: 4 cm per coat
Drying time	24-48 hours between coats. At least 10 days before covering. Drying time depends greatly on environmental conditions.

CHARACTERISTICS	
Pot-life of mixture	About 15 minutes
Coverage	16 kg/m2 per mm of thickness
Overpaintable	Compatibility with other products: compatible with all water-based products
Colour range	Hazelnut
Dilution	Water

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APPLICATION

Suitable Substrates:
Brick, resistant calcareous stone, concrete blocks, cement-based plasters, concrete

Preparation of the Substrate:
Carefully prepare the substrates by brushing and/or sandblasting or pressure washing so that they are solid, free of any loose or poorly adhering parts. Wet the surfaces until they can absorb no more water, and wait for the veil of water to disappear from the surface before applying MALTA MODELLABILE. Treat any protruding steel with Griptow.

Ambient Conditions:
min +5°C max +35°C

Type of Equipment:
spatula, mason's trowel, low speed mixer

Application Procedure:
Mix the amount of MALTA MODELLABILE that can be used within 15 minutes. Apply with a mason's trowel, finishing with specially prepared shapes ("templates") within 15 - 20 minutes and shape them within 40 - 60 minutes, depending on ambient temperature. The minimum application thickness is 1 cm. The maximum application thickness is 4 cm. For high thicknesses, it is advisable to apply a reinforcement mesh to reinforce the structure. Do not apply at temperatures below +5°C and above +30°C. Do not apply on substrates that are frozen or if freezing temperatures are expected within the following 24 hours. Do not apply on gypsum substrates (any small parts must be treated with Towacril primer). Protect the masonry from rain for the first 48 hours.

Notes:
Do not apply on surfaces that are in direct sunlight, frozen or very hot. Do not apply when it is very windy or when there is fog or rain. The conditions must last at least 2 days after application.

STORAGE

Disposal and safety indications:
Dispose of in accordance with local regulations.
For information on possible hazards, refer to the safety data sheet

Packaging:
25kg bags

Storage:
8 months on a pallet and when stored in a dry place in undamaged packages at between 5° and 30°C.

TECHNOLOGIES/CERTIFICATIO

CE EN 998-1

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