

Injection mortar based on pure natural hydraulic lime NHL 3.5 certified EN 459-1

Injection mortar based on pure natural hydraulic lime certified NHL 3.5 according to EN 459-1. Classified M10 according to UNI EN 998-2 as type G masonry mortar. Suitable for low pressure injections for the consolidation of traditional or sack masonry, particularly in historical restoration and recovery and in green building. CE mark.

SUBSTRATE PREPARATION

Proceed beforehand by grouting all cracks and fissures in the masonry with PREMIER CALCESTRUTTURA IM10 or CALCESTRUTTURA MM5 products. In the case of plastered masonry, check the plaster's adherence to the substrate to avoid unwanted sagging. Drill holes in the masonry with a diameter of 20/25 mm at the joints of the bedding mortar and insert the injectors spaced with a 50x50 cm mesh. (4 injectors per square metre). Before proceeding with injection, thoroughly wash the inside of the masonry cavity with water under light pressure through the previously positioned injectors, always proceeding from the highest to the lowest point.

APPLICATION

CALCESTRUTTURA MI 10 should be mixed with approx. 32-34% potable water. It is advisable to introduce 3/4 of the necessary water into the mixer, adding the product and the remaining water continuously until the desired, homogeneous and lump-free consistency is obtained. The product must not be added during preparation and laying with any component other than the mixing water. CALCESTRUTTURA MI 10 must be injected into the masonry using ordinary pumps, manual or electric, at low pressure, through injectors fixed in the perforations and proceeding from the bottom holes towards the top holes. From the bottom to the top, proceed with the injection of CALCESTRUTTURA MI 10 using suitable manual or electric equipment until the masonry is completely saturated.

WARNINGS :

Product intended for professional use. Check the integrity of the packaging before use and do not use the product if lumps are present. Do not remix the product by adding water once it has started setting. Any colour variations in the product from batch to batch are attributable to the use of natural raw materials. It is the customer's responsibility to check that the product is suitable for the intended use and to ensure that this technical document is valid and not superseded by subsequent updates. Updated technical documents can be found at www.premierpremiscelati.it.



ADVANTAGES

- High breathability.
- Eco-friendly, low environmental impact product.
- Low water-soluble salt content.
- High resistance to sulphates.
- High fluidity and penetration capacity in masonry.
- Low water-cement ratio and compensated plastic/hydraulic shrinkage.
- Excellent chemical-mechanical compatibility with historical mortars.
- High mechanical strength.

APPLICATIONS

Low pressure injection: Structural reinforcement of damaged masonry, pillars, bearing vaults in brick, tuff, stone and mixed. Use on 'sack masonry'. The product has composition characteristics that make it suitable for reinforcing masonry work in green building.

CONSERVATION

Conserve in a dry place for no longer than 12 months.

All the info on
www.premierpremiscelati.it

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TECHNICAL DATA

Appearance	Nut colour powder	
Temperature of Application , °C	+5 a +35 °C	
pH in water solution	12	
Granulometry range , EN 1015-1	0 – 100 µ	
Apparent density of powder	900 Kg/m ³	
Apparent density of fresh mortar, EN 1015-19	1900 Kg/m ³	
Apparent density of hardened mortar, EN 1015-19	1500 Kg/m ³	
Water ratio in the mixture	33 – 36%	
Fluidity of the mixture, EN 445	0 min	29 s
	30 min	33 s
	60 min	35 s
Segregation	Missing	
Mixture Outcome	1,45 Kg/dm ³	

The data given related to laboratory tests; in practice, on-site applications, these may be significantly altered depending on the conditions of use. The user must in any case verify the suitability of the product for the intended use, assuming all responsibility for its use.

**PREFORMANCE DATA EN 998-2:
SPECIFICATIONS FOR MORTARS FOR MASONRY WORKS – MASONRY
MORTAR**

Mass Density , EN 1015-10	900 Kg/m ³
Resistance Under pressure, EN 1015-11	Class M10
Initial shear strength in combination with masonry elements in accordance with EN 771	0,15 Mpa (v.t.)
Chloride Content, EN 1015-17	≤ 0,1%
Permeability to water vapour, EN 1745	15-35 (v.t.)
Water Absorption by capillarity, EN 1015-18	0,5 Kg/m ² *min ^{0,5})
Reaction to fire, EN 13501-1	A1