

Mortar based on natural hydraulic lime NHL 3.5 certified EN 459-1

Concrete-structure system. Mortar based on natural hydraulic lime certified NHL 3.5 according to EN 459-1. Particularly suitable in the sectors of green building and historical restoration. Thanks to its workability and its physical and mechanical properties, it is recommended for all general restoration or repointing work of traditional, brick or mixed masonry
Classified M5 according to UNI EN 998-2. CE mark.

PREPARAZIONE DEL FONDO SUBSTRATE PREPARATION

The support must be clean, healthy and compact. The support must be free from dust, grease and all sediments that damage the adhesion of the mortar. In case of repairs, it is essential to carefully strip the mortar joints and eliminate all friable and mechanically weak materials. Before application the support must be humidified until it refuses.

APPLICATION

CALCESTRUTTURA MM5 is prepared by mixing the powder with approximately 14-16% of drinking water. It is advisable to pour the water first, then adding all the product powder. Mix carefully and continuously until obtaining a homogeneous mixture, free of lumps and with a plastic-thixotropic consistency. **CALCESTRUTTURA MM5** can be mixed with a concrete mixer, bucket and mixer. Mix for no more than 5 minutes.

No other binder or inert material must be added to the product so as not to alter its mechanical and physical characteristics. Apply with normal manual or mechanical equipment. Do not remix the product by adding water once it has started to set. **CALCESTRUTTURA MM5** is applied with a trowel like a traditional mortar. If used as a bedding mortar, first create the installation bed and then proceed with the installation of the construction elements, taking care to apply light pressure to allow correct positioning. In the case of repairs to walls subject to reinforcement interventions using structural reinforced plaster, proceed with the regularization by filling/styling the interstices/cavities/depressions of the support. Lastly, in the case of recoating interventions, proceed with unstitching the masonry and inserting new construction elements using mortar and without interrupting the static function of the masonry.

WARNINGS

Product intended for professional use. Check the integrity of the package before use and do not use the product with lumps present. Do not remix the product by adding water once it has started to set. Any small chromatic variations do not damage the final technical performance of the product in any way. The product characteristics listed above respond to standard environmental conditions (20-23°C and 65% R.H.). The customer is required to verify that the product is suitable for the intended use and to ensure that this technical document is valid and not superseded by subsequent updates. The updated technical documents can be found on the website www.premierpremiscelati.it.



**Complies with
European standards EN 998-2
NHL 3.5 EN 459-1**

ADVANTAGES

- High breathability.
- Eco-friendly product, with low environmental impact.
- Low content of water-soluble salts.
- Chemical compatibility with historical mortars.
- Easy application, plastic-thixotropic rheology and low creep tension.
- Reduced plastic/hydraulic shrinkage.
- High mechanical resistance.
- In case of restoration it offers excellent physical-mechanical compatibility with the existing structure.
- Produced at Km 0.

USES

- Bedding mortar.
- Small repairs.
- Re-cothing or stitching operations.

CONSERVATION

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

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CHARACTERISTIC DATA

Appearance	Hazelnut colored powder
Application temperature, °C	+5 a +35 °C
pH in aqueous solution	12
Grain size range, EN 1015-1	< 3 mm
Massa volumica apparente della polvere Apparent density of the powder	1450 Kg/m ³
Apparent density of fresh mortar, EN 1015-6	2000 Kg/m ³
Mixing water	14 – 16%
Consistency of fresh mortar, EN 1015-3	175 mm
Minimum thickness per layer	5 mm
Maximum thickness per layer	25 mm
Consumption	1,7 Kg/dm ³

**PERFORMANCE DATA EN 998-2:
SPECIFICATIONS FOR MASONRY MORTARS - MASONRY MORTARS**

Compressive strength, EN 1015-11	Class M5
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%
Water vapor permeability, EN 1745	15-35 (v.t.)
Thermal conductivity, EN 1745	0,8W/mK (v.t.)
Water absorption by capillarity, EN 1015-18	≤2,5 Kg/m ² *min ^{0,5}
Reaction to fire, EN 13501-1	A1