

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

Calcestruttura system. Mortar based on natural hydraulic lime certified NHL 3.5 according to EN 459-1. Particularly suitable for the sectors of green building and historical restoration. Thanks to its workability and its physical and mechanical properties, it is recommended for all generic restoration or repointing of traditional, brick or mixed masonry. Classified M15 according to UNI EN 998-2. CE mark.

SUBSTRATE PREPARATION.

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

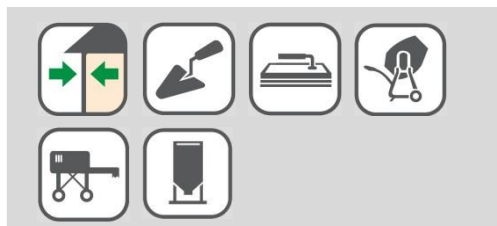
APPLICATION

CALCESTRUTTURA MM15 is prepared by mixing the powder with approximately 14-16% of drinking water. It is recommended to pour the water first, then add all the powdered product. Mix thoroughly and continuously until a homogeneous mixture is obtained, free of lumps and with a plastic-thixotropic consistency. **CALCESTRUTTURA MM15** can be mixed with a cement mixer, bucket and mixer. Mix for no more than 5 minutes.

No other binder or inert material should be added to the product so as not to alter its mechanical and physical characteristics. Apply with normal manual or mechanical equipment. Do not mix the product by adding water once it has started to set. **CALCESTRUTTURA MM15** is applied with a trowel like a traditional mortar. If used as a bedding mortar, the laying bed must first be created and then proceed with the laying of the construction elements, taking care to apply light pressure to allow correct positioning. In the case of repairs to walls subject to reinforcement work using structural reinforced plaster, proceed with regularization by filling/pointing the gaps/cavities/depressions in the support. Finally, in case of repointing work, proceed by 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 packaging before use and do not use the product if there are lumps. Do not mix the product by adding water once it has started to set. Any small chromatic variations do not in any way damage the final technical performance of the product. The characteristics of the product 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 www.premierpremiscelati.it.



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

ADVANTAGES

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

USES

Bedding mortar.
Small repairs.
Patching or unstitching/stitching operations.

STORAGE

Store in a dry place for no more 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
Apparent density of the powder	1450 Kg/m ³
Apparent density of the fresh mortar, EN 1015-6	2000 Kg/m ³
Mixing water	16 – 18%
Consistency of the fresh mortar, EN 1015-3	175 mm
Minimum thickness per layer	5 mm
Maximum thickness per layer	25 mm
Coverage	1,8 Kg/dm ³

PERFORMANCE DATA IN 998-2: SPECIFICATIONS FOR MORTY FOR MAIN WORKS – MAINTENANCE MORTAL

Compressive strength, EN 1015-11	Class M15
Initial shear strength in combination with masonry elements according to EN 771	0,15 Mpa (v.t.)
Chloride content, EN 1015-17	≤ 0,1%
Water vapour permeability, EN 1745	15-35 (v.t.)
Thermal conductivity, EN 1745	0,83 W/mK (v.t.)
Capillary water absorption, EN 1015-18	≤1 Kg/m ² *min ^{0,5}
18 Reaction to fire, EN 13501-1	A1