BINDER

H-60.1 NHL-5 Data Sheet

NATURALLY HYDRAULIC LIME

DESCRIPTION: It is a natural hydraulic lime pre-dosed with cocciopesto filler, with a low content of water-soluble salts with prolonged pozzolanic action.

USE: as a binder for the production of plasters and mortars, in particular for the restoration of historic buildings. Exterior / Interior

PROPERTIES: Natural Hydraulic Lime exerts a restorative action on old and new masonry and improves the breathability of the masonry. The presence of cocciopesto increases the hydraulic component and resistance to disintegrating salts that can be absorbed by capillarity.
The characteristic pinkish hazelnut color allows you to intervene in masonry
Mortars produced with lime have excellent resistance to UV rays and climatic stresses; The absence of cement reduces the direct formation of efflorescence.

USE: Lime can be mixed with any inert material as long as it complies with the rules for the acceptance of aggregates according to Ministerial Decree 03.06.68 annex one.
Mortar mixture: 300 kg. H-60.1 + 25 Kg. Putty per m³ of aggregate with 0-4 mm grit.
Plaster mixture
Scratch coat: 175 kg. Lime H-60.1 + 25 Kg. Putty per m³ of aggregate with 0-4 mm grit.
Bottom: 150 kg. Lime H-60.1 + 50 Kg. Putty per m³ of aggregate with 0-3 mm grain. If natural hydraulic lime is used as a binder for plasters, it is advisable to carry out a three-layer cycle, (Scratch coat + primer + finish) with inert grain size and decreasing quantity of binder and for a maximum thickness of 1.5 cm per layer. Further thicknesses are obtained by applying when the previous one is sufficiently hardened.
Screed mixture: 350-400 Kg/m³, of aggregate with 0-5 mm grain.

The mixtures are mixed in a concrete mixer until completely homogenized, adding clean water; any other addition of different binders can compromise the chemical-physical characteristics of the lime. Do not mix chemical additives, antifreeze, cement or other substances in general with the mortar.
It is advisable to apply the product obtained with natural hydraulic lime on previously wet substrates in order to ensure good adhesion and excellent maturation of the product;

PRECAUTIONS:
Preparation of the substrate: before installation, check that the replacement elements are well aggregated; dust, dirt, grease, any chalking or detaching parts must be removed. In the presence of absorbent elements, it is recommended to wet to waste before application. To avoid the formation of any cracks due to plastic shrinkage, keep the new application moist for at least 24 hours

SUPPLY: The mixture is supplied in a 25 kg bag on pallets with a shrink cover.

CHEMICAL-PHYSICAL CHARACTERISTICS:

- Hydraulic lime of natural origin is gently fired in accordance with EN 459-1
- Natural raw material.
- Hydraulic lime produced from selected calcareous marl.
- Carbonate and hydraulic hardening.
- Good workmanship.
- Workable in mixtures according to proven recipes.
- Basic binder: NHL 5 in accordance with EN 459-1.

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- Specific weight approx. 820 Kg/m³
- The consumption figures depend on the type of plaster or mortar mixture.

Flexural Strength	>1.5 N/mm²	Essay on Pozzolanicity	positive
Non-deformability test	< 10 mm	Compressive strength at 28 days.	>5 N/mm²

ENVIRONMENTAL COMPATIBILITY

Nature of the product	Inorganic	Type of aggregate used	natural, inorganic
Recyclate content	Approx. 5 %	End-of-use disposal	in landfills as inert (non-hazardous waste)

CAUTION:

- Do not apply the product at temperatures below +5°C and above +30°C.
- Store the product in a dry place and away from frost and humidity. Do not store the product exposed to the sun and avoid strong temperature fluctuations. It is recommended to operate at temperatures between +5° and +30°C
- with absorbent supports, before application it is advisable to evenly wet the surface by nebulizing water; Stagnation of water during application should be avoided.
- Protect from rain, wind and sun, frost and rapid drying (to avoid burns, chalking and cracking) for at least 24 hours after installation.
- Do not apply on surfaces that are overheated above 30° or on frozen substrates or with a possibility of frost in the following 24 hours.
- The setting times and the consequent hardening can be significantly shortened in the summer and lengthened in the winter
- It is not recommended to apply the material in contact with pure aluminum.
- The condition of the substrate, the grade, and the type of finish required determine the method of application, and the thickness
- The manufacturer, or the supplier of the material, does not exercise any control over the applications and does not assume responsibility for the use and installation methods followed. In any case, the user must verify and ascertain, even with preliminary tests, the suitability of the product and equipment if suitable for the desired use, assuming all responsibility deriving from the use.
- Follow the instructions in this data sheet and consult our technical service if in doubt.

SAFETY: Lime (H-60.1) is a natural alkaline material. The use of a mask and gloves is recommended during work. In case of accidental contact with eyes, wash thoroughly with water and seek medical attention.

NOTES:

The product is intended for professional use and the application implies verification of suitability for the intended use and assumption of liability arising from use. The data in this data sheet are obtained from laboratory measurements and on-site tests. The manufacturer reserves the right to make the most appropriate changes to the technical data at any time and without prior notice. Technical staff is available to provide assistance and provide any useful advice for use and application.

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