



MORCEM® CAL INYECCIÓN CONSOLIDANTE

Natural hydraulic lime breathable grout for consolidating masonry walls. Natural composition.



DESCRIPTION

Natural hydraulic lime breathable grout for consolidating masonry walls. Natural composition.

TECHNICAL CHARACTERISTICS

NHL 5 natural hydraulic lime product, with pozzolans, selected aggregates and other additives.

ADVANTAGES AND USES

- Suitable for rehabilitation use due to its high compatibility with traditional systems.
- For application on structural reinforcements and consolidating masonry walls, pillars and domes by low-pressure injection.
- High water vapour permeability.
- Fluid, cohesive mix.
- High resistance to salts.
- No separation or exudation .
- Low content of soluble salts.
- Free from cement.
- High mechanical resistance.

SUITABLE SUBSTRATES

- Prior to use, the elements to be consolidated must be treated, filling any missing volume and sealing the joints between the stone and brick. Patch or formwork in places where masonry is not going to be visible. The sealing or patching must be carried out with a natural hydraulic lime product in order to ensure the continuity of the substrate's breathability.

APPLICATION PROCEDURE

- Make horizontal or sloped perforations, with a maximum gradient of 30° over the facing to be treated by inserting injector tubes of 1.5 to 2 cm sections at the appropriate distance, forming a square or staggered mesh according to the condition of the substrate to be consolidated, with approximately 50 cm of separation between the perforations. These injector tubes will penetrate approx 15 cm into the structure.
- Wash the network of internal channels saturating the entire structure with water using the upper injectors at no-pressure, to avoid deteriorating the network of channels, ensuring that the water flows through the lower injectors. Proceed with the mortar injection after ensuring that the structure has expelled or absorbed all the water.
- Mix manually or mechanically with the appropriate quantity of water until a fluid consistency is obtained, adding the powdered product gradually over part of the stated amount of water and add the rest of the water to complete the mix for approximately 5 minutes.
- The material is injected at low-pressure taking into account the condition of the substrate, injecting from bottom to top to ensure the removal of air content inside the substrate until it appears through the upper injectors. Control the pressure according to the condition of the substrate.

RECOMMENDATIONS

- For horizontal surfaces use low-pressure or gravity injection and make outlets in the areas opposite the insertion.

- Use the mortar within 30 minutes of mixing.
- Do not reuse previously mixed product.
- Do not apply under 5°C nor above 30°C.
- Do not apply if there is a risk of freezing or on immersed substrates.
- Wet the wall with abundant water.

PACKAGING AND STORAGE

15 kg plastic-lined paper bags. Shelf life: 1 year in sealed original packaging, sheltered from weather conditions and humidity.

TECHNICAL DATA

(Statistical data obtained under standard conditions)

Appearance clear	BEIGE Powder
Resistance to compression	M10
Fluidity cone (4 mm section):	
initial	< 300 sg
30 min	< 300 sg
60 min	< 300 sg
Exudation	Exempt
Resistance to sulphates (90 days dissolution Na ₂ SO ₄ to 5%)	Without loss
Performance	According to use

ENVIRONMENTAL
PRODUCT
DECLARATION (EPD)

Cement based mortar prepared with aggregates that are supplied close to the production center, which reduces the greenhouse gas emissions that would otherwise arise from their transport. Manufactured in production centers with an Environmental management certified system following ISO 14001 regulation, offering a firm promise of sustainability and respect for the environment.

Cement based mortar with type III ecological label (the most strict) Environmental Product Declaration verified externally by AENOR.

LEGAL DISCLAIMER

The instructions for use are given according to our tests and knowledge and do not imply any commitment by GRUPO PUMA nor free the consumer from the examination and verification of the products for their correct use. Claims must be accompanied by the original packaging to allow a proper traceability.

GRUPO PUMA is not responsible, in any case, for the application of its products or constructive solutions carried out by the application company or other parties involved in the process and / or execution of the work, limiting the responsibility of GRUPO PUMA exclusively to the damages directly attributable to the supplied products, individually or integrated in systems, due to failures in their manufacturing process.

In any case, the drafter of the work project, the technical management or the person responsible for the work, or collaterally the application company or other parties involved in the process and / or execution of the work, must ensure the suitability of the products addressing the characteristics of them, as well as the conditions, support and possible pathologies of the work in question.

The values obtained by GRUPO PUMA's products or its constructive solutions that, as the case may be, are determined by the EN standards or any other regulation that applies to it in each case refers exclusively to the conditions specifically stipulated in said regulation and that are referred to, among others, to certain characteristics of the support, humidity and temperature conditions, etc. without being them required in the tests obtained under different conditions, all in accordance with the relevant regulation.