

Injection mix containing natural hydraulic lime (NHL) with the addition of natural pozzolan and carbonate filler

Description

Limepor 100 is an injection mix containing natural hydraulic lime (NHL) with the addition of natural pozzolan and carbonate filler.

This mix was specially designed for the restoration and pre-consolidation of cavity walls and brick or stone foundations by means of injection techniques.

Limepor 100 has low water-soluble salt content which makes it physically and chemically compatible with the original components of walls with similar mechanical properties. It can be injected into cracks or cavities using any kind of pump with special injectors. In order to be installed it only requires the addition of water.



Advantages

- High fluidity and low water/binder ratio;
- Mechanical properties comparable to those of a masonry structure: it provides uniform and isotropic structural performance of the renovated wall;
- Low water-soluble salt content;
- High breathability;
- Excellent penetration power enabling very small cracks or cavities to be saturated;
- No mixture segregation during injection;
- Less deterioration of equipment;
- Chemically compatible with materials used in historic buildings;
- Improvement of both the static and dynamic properties of the structure once work is completed;
- Ready-to-use and easy to apply;
- Reduced hydraulic shrinkage.

Uses

Limepor 100 is used for the restoration and pre-consolidation of ancient brick or flint walls by means of injecting with low pressure injection systems.

Application

Limepor 100 must be mixed with approximately 30% drinking water (5.5- 6.5 litres for each 20 kg pack).

It is recommended that you put 3/4 of the amount of water required into the mixer, then add the product and the remaining water continuously until you obtain the consistency required.

No component other than the mixing water must be added to the product during preparation and laying.

Limepor 100 must be injected into walls by means of normal electric or manual low-pressure pumps, using injectors fixed into the holes and proceeding from the lower holes towards the upper ones. Do not remix by adding water to the product when it has already started to set. With frescoed walls, use Limepor IZ8 and contact our technical support service for assistance.

Packaging

20 kg paper bags. 1,200 kg pallets.

Characteristics	Value
Appereance	Powder
Colour	Sfumature grey chiaro-nocciola
Application temperature	+2 - +35 °C
pH in water dispersion	11,5 -12,5
Granulometric distribution UNI EN 1015-1 (not-seved at 0,09mm)	100 %
Granulometric distribution UNI EN 1015-1 (not-seved at 0,06mm)	90 %
Fluidity (Consistency mediante canaletta) UNI 8997	70 - 80 cm
Apparent volumetric mass of wet mortar UNI EN 1015-6	1930 ± 50 Kg/m ³
Workability time of wet mortar UNI EN 1015-9	195 ± 30 mins
Compression strength 7 days UNI EN 1015-11	> 14 MPa
Compression strength 28 days UNI EN 1015-12	> 18 N/mm ²
Flexural strength 7 days UNI EN 1015-11	> 2 MPa
Flexural strength 28 days UNI EN 1015-11	> 4 MPa

Coverage

1.5 kg product per 1 litre volume to fill.

Absorption per cubic metre of masonry: about 80 - 190 kg depending on the size of the cavities in the wall.

Storage

Protect from humidity. Store in a dry, sheltered place.

In these conditions the product remains stable for 12 months.

Warning

Product for professional use. The use of natural raw materials may result in natural color variations from one production lot to another. Before using, check bags have not been damaged, and do not use the product if there are any lumps. The technical specifications and application methods recommended herein are based on our current knowledge and experience and do not represent any form of guarantee of the final results obtainable with the product. It is the customer's responsibility to check that this data sheet is still effective and has not been replaced with a more recent version, and that the product is suitable for the intended use.

