

POMEX LIME INJECTION

Description

It's a pozzolanic lime based, injection mortar designed to repair historical masonry buildings.

General Directorate for Foundations Pos No: V.0107/D

Areas of Use

It's used to repair cracks on floors and walls of historical buildings.

Features

* Due to the new generation fluidizer in its content, it can be easily injected using low-pressure pumps, syringes, or fine needles.

*It does not contain soluble salts and does not deteriorate over time.

*It does not disrupt the water vapor permeability of the wall used in the repair.

Application Procedure

Surface Preparation

The surface to be applied must be free from substances that reduce adhesion, such as dust, oil, and loose particles. If there is water flow on the surface, it should be drained or closed with a plug.

For cracks of 1-5 mm

According to the width, depth, and environmental conditions of the crack, holes should be drilled on both sides of the crack plane at appropriate intervals (~30 - 50 cm). These holes should penetrate the crack plane and extend to the other side at a depth and angle of approximately 45° to the crack plane. After drilling, air should be blown into the holes to remove dust and loose particles, and plastic hoses should be inserted into them. Once all the hoses are in place, the area around the hoses and over the crack should be sealed with **Pomex Horasan Mortar** to ensure the cracks are sealed. Depending on the ambient and weather conditions, application of **Pomex Lime Injection** should commence using a suitable injection pump at least 24 hours later.

For cracks more than 5 mm

According to the width, depth, and environmental conditions of the crack, pneumatic hoses should be placed on both sides of the crack plane at appropriate intervals (~75 - 100 cm). After drilling, air should be blown into the holes to remove dust and loose particles. Once all the hoses are in place, the area around the hoses and over the crack should be sealed with **Pomx Horasan Mortar** to ensure the cracks are sealed. Depending on the ambient and weather conditions, application of **Pomex Lime Injection** should commence using a suitable injection pump at least 24 hours later.

Usage

12 kg Lime Injection should be slowly added to 4.5-5 liters of clean water, and mixed with a low-speed mechanical mixer until a homogeneous appearance is achieved. The mixture should rest for 5 minutes, then be mixed again for about 30 seconds until it's ready for use.

Mixture Ratio

For a 12 kg bag: 4.5-5 liters of water

For 1 kg of dry product: 0.375-0.416 liters of water

Density of the mixture: 1.8-2.0 kg/liter

Application

The prepared mortar should be injected into the crack using suitable equipment.

Consumption

Approximately 1.4-1.5 kg of dry product is needed to obtain 1 liter of mortar.

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Technical Specifications

Structure of the Material	Pozzolanic lime and micronized carbonates.
Colour	Off-white
Compressive Strength	> 13 N/mm ² (28 days)
Application Temperature	+ 5 °C - + 30 °C
Curing Time	7 days (20 °C)
Usage Time	30 minutes (20 °C)
Grain size	1-30 mic.

The abovementioned values are obtained as a result of laboratory experiments. The values may vary depending on the ambient in the site.

Important Points

*If the temperature of the application surface and environment is below +5°C or above +35°C, the application should not be carried out. The allowed temperatures for application should be waited for.

*It should not be applied on frozen or thawing surfaces. Avoid application in extremely windy conditions.

*The mixture must be prepared using a mixer.

*The application should be performed by experienced applicators.

Safety Recommendations: During application, appropriate workwear, protective gloves, goggles, and masks in accordance with occupational health and safety regulations must be worn. Avoid contact with skin and eyes; if contact occurs, wash thoroughly with plenty of water. In case of ingestion, seek medical attention immediately. Store out of the reach of children. No food or drink should be kept in the areas where the application is taking place.

Liability: POMZA EXPORT A.Ş., the producer of **eile POMEX**-branded products, cannot be held responsible for any improper applications (misuse) due to non-compliance with the above-mentioned recommendations and application conditions. It is the responsibility of the applicator to ensure that the product is used according to its intended purpose and that the application conditions and methods are valid. **eile POMEX** Construction Chemicals does not accept any claims for compensation arising from failure to apply the products as recommended, work-related accidents, or any direct or indirect damages.

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Cleaning of the Tools

After application, the tools and equipment used should be cleaned with water. After the material is hardened, it can only be cleaned mechanically.

Package

12 kg Kraft Bag

Storage: Unopened original packaging should be stored stacked up to a maximum of 10 layers in a cool and dry environment.

Shelf Life: Under the specified storage conditions and in unopened packaging, the shelf life is 12 months from the production date.