

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 Usage

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

Features

*It can be easily injected with low pressure pumps, syringes or thin needles due to its new generation plasticizer content.

*It does not contain soluble salts and it does not deform in time.

*It does not deform water vapour permeability of the wall.

* It has a validation report of İBB restoration-conservation laboratories

Application Procedure

Surface Preparation

The application surface should be cleaned from dust, oil and loose parts which may reduce adherence. If there is water on the surface, it should be drained or closed with a plug.

For cracks of 1-5 mm

According to the crack width, depth and ambient conditions, holes are drilled on both sides of the crack (~30 - 50 cm) with appropriate spaces. These holes should be drilled to pass crack surface and they should be drilled to make an angle of 45° with the crack surface. The holes are cleaned with air and dust and free parts should be removed and plastic packers should be inserted and fixed in it. After all packers are inserted, Pomex horasan plaster is applied around packers and over crack and provides sealing. Depending on the ambient and weather conditions, pomex lime injection should be applied by an injection pump after 24 hours at least.

For cracks more than 5 mm

According to the crack width, depth and ambient conditions, pneumatic pipes should be inserted on both sides of the crack surface with appropriate spaces (~75 -100 cm).

The holes are cleaned with air and dust and free parts should be removed. After all pipes are inserted, Pomex Horasan Plaster is applied around pipes and over cracks and provides sealing. Depending on the ambient and weather conditions, pomex lime injection should be applied by an injection pump after 24 hours at least.

Usage

12 kg **POMEX LIME INJECTION**; 4,5-5 liters of water is added into slowly. It's mixed with at low speed mechanical mixer until a homogenous appearance is provided.

The material is allowed to stand for 5-10 minutes. Then it's mixed for 30 seconds again and it's ready to use.

Mixture Ratio

For 12 kg sack: 4,5-5 l water

For 1 kg powder product: 0,375-0,416 l water

Mixture density: 1,8-2,0 kg/l

Application

The mortar is injected into cracks with appropriate equipment.

Consumption

To obtain 1 l mortar, 1,4-1,5 kg powder product

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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.

Points to take into consideration

- * If the temperature of application surface and application ambient is lower than +5 °C or over +35 °C, no application should be done.
- * No application is done in frozen, melting and very windy ambient.
- *The mixture must be prepared with a mixer.
- *The application should be done by expert persons.

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 sack

Storage

It should be stored in unopened original package in a cool and dry place and stack maximum 10 packages on top of each other.

Shelf Life

Shelf life is 12 months from production date in storage conditions

Safety Recommendations: Please wear the coveralls, protective gloves, glasses and mask suitable for occupational health and safety. Make sure that it does not contact the skin and the eyes; in case it does, wash with plenty of water. In case swallowed, contact the closest health care institution immediately. Keep out of the reach of children. Keep food and drinks away from the application areas.

Responsibility: In case the recommendations and application conditions specified above are not conformed, the applications (misuse) do not fall under the responsibility of **POMZA EXPORT A.Ş.**, the producer of **eile POMEX branded products**. The user is responsible for whether the product is used in accordance with its purpose, as well as the validity of application conditions and forms. **eile Pomex Construction Chemicals** does not accept any indemnity claim concerning the results, work accidents, direct or indirect damages or losses due to the misapplication of the products.

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