



PROHIDRO INJECTION

566

*Natural Hydraulic Lime Based
Injection Mortar*

PRODUCT DESCRIPTION:

PROHİDRO INJECTION is an injection mortar containing pozzolanic lime and micronized carbonates, used in the structural repair of masonry building components.

FEATURES / ADVANTAGES:

It can be used even in sulfate-containing environments.

It does not interact negatively with original building materials or with different materials used during and after the restoration process.

The superior hydraulic nature of the binder ensures a high degree of penetration of the injection mortar into the structure.

With the help of its medium elasticity module, it is ideal for filling small and large gaps, even in carrier problems caused by excessive moisture in the original material.

The grouting material used in wall repair is in perfect harmony with brick, stone and tuff materials without impairing the vapor and moisture permeability of the wall.

It provides controlled expansion preventing plastic shrinkage without causing harmful stresses in the structure to be repaired.

Thanks to the natural water traps it contains, it allows injection without pre-wetting the surface; It prevents water from reaching and damaging the frescoes by separating from the injection hara.

With the help of polycarboxylic ether-based new generation superplasticizers it contains, It can be injected easily and effectively using pressure pumps, syringes or fine needles.

It does not contain additives and soluble salts (alkalis, sulfates, chlorines or nitrates), does not degrade over time.

PRODUCT INFORMATION:

Chemical Base	Pozzolonic Lime-based and micronized carbonate
Appearance / Color	Powder / A. Brown & Cream

PERFROMANCE:

(23°C, 50% RH)

Compressive Strength 28 days ≥ 13 N/mm² TS EN 1015-11

Powder Density 0.8 ± 0.1 gr/cm³

Pot Life 30 min

Mixture Density 1.90 ± 0.2 KG/ LT



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These values have been obtained as a result of laboratory tests carried out in our company and are valid for the performance of the finished applications at the end of the full drying period. Since the temperature and humidity values in the construction site environment and the application surfaces and areas will vary, the values may change.

USAGE AREAS:

On walls in sulfated environments,
In historical masonry domes and vaults,
In the filling of small and large structural cavities,
In closing the cracks,
It is used as injection material in foundations.

APPLICATION INSTRUCTIONS:

Surface; It must be dry, solid and free of dust. It must be cleaned of residues such as oil, grease, dirt, paint, salt vomit that will prevent adhesion. The wall surface to be applied must be moistened beforehand in order to improve the adhesion and setting time of the mortar. If the water flow on the surface should be closed with the help of PROSRTOP & PROSTOP SPEED and the water should be drained. The wall on which the application will be made must be moistened beforehand.

16 kg of PROHİDRO INJECTION 566 is slowly added into 4.5 kg of water and mixed with a 400-500 rpm mixer for approximately 5 minutes.

Application Equipment:

Hand Mixer
Injection Equipment

The prepared mortar is injected into the crack using appropriate injection equipment and apparatus.
is done.

For 1-5 mm Cracks:



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Deciding according to the crack width, depth and ambient conditions, holes should be drilled at appropriate intervals (-30 - 50 cm) on both sides of the crack plane. These holes should be drilled at a depth that will pierce the crack plane and pass to the other side and make an angle of approximately 45° with the crack plane. Dust and free particles should be removed by keeping air inside the drilled holes, and plastic packers should be nailed and fixed by tightening. After all packers are placed, packer surrounds and cracks should be plastered with PROHIDRO 565 and the crack should be sealed. Depending on the environment and weather conditions, the injection process should be started with PROHIDRO INJECTION using the appropriate injection pump after at least 24 hours.

For cracks larger than 5 mm:

Pneumatic hoses should be placed in the crack with appropriate intervals (75-100 cm) by deciding according to the crack width, depth and ambient conditions. Free particles in the crack should be removed with compressed air. After all hoses are placed, Hose circles and cracks should be covered with PROHIDRO 565 and the crack should be sealed. Appropriate injection after at least 24 hours, depending on the environment and weather conditions.

The injection process is started with the PROHIDRO INJECTION 566 using the pump.

LIMITATIONS:

Please obey to the application instructions to obtain optimum quality. In outdoor applications, the first 3 hours should be protected from sun, rain and frost. Do not add more water than necessary. Otherwise, cracking and adherence weakness will occur. Reaction times are affected by ambient and ground temperatures. Reaction times are shortened in hot environments and longer in cold environments. Hot mixing water should be used in cold environments. In hot environments, icy snow radiant water should be used. The application should be done between +5 C and +30 C. It should not be applied in hot, rainy and windy weather. It should not be applied on surfaces where there is a danger of frost. The product should be protected from rain, water, frost and adverse external factors until it cures (28 days). Expired and hardened mortar should be destroyed. PROHIDRO INJECTION 566 injection procedures should be performed by technically qualified practitioners.

CONSUMPTION:

1.50 kg of powder product to obtain 1 liter of mortar

PACKAGING:

In 16 kg kraft bag,



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SHELF LIFE:

It is 1 year from the date of production in its original packaging in dry and non-humid (temperature between +5 C and +25 C) environments. The lid of the containers should be tightly closed when not in use. It should be kept away from moisture.

STORAGE CONDITIONS:

It should be stored in its unopened original package, in a moisture-free, dry and cool (temperature between +5 C and +25 C) environment. It should not be left under direct sunlight.

SECURITY:

Since it is cement based, do not breathe the dust, use a mask. Avoid contact with skin and eyes. Use protective gloves, goggles and clothing. In case of eye contact, seek medical advice immediately. Keep out of reach of children. In case of skin contact, wash with plenty of water and soap. Do not swallow. For detailed information and recommendations, please refer to the Safety Data Sheet.

DEKOSTAR San.ve Tic.Ltd. Şti. is not responsible for any application errors that may occur if the product is used for purposes other than its intended use or if the above-mentioned application conditions and recommendations are not followed. Dekostar reserves the right to change its products. Users should consider the latest edition of the Technical Data Sheet of the relevant product.