KREISEL

TECHNICAL DATA SHEET

DAMP-PROOFING INJECTION LIQUID 900

Solution for performing injections in humid walls, also intended for impregnation.

Areas of application

DAMP-PROOFING INJECTION LIQUID 900 is a specialist solution intended for executing horizontal diaphragm protecting structures against capillary action, intended for both the gravitational and pressure method. This preparation is also used for surface impregnation of porous materials to reinforce a weakened structure of wall and fencing, penetration of salt to the renovation plaster or on surface of the wall. It is suitable for impregnation of such materials as: natural stone, plasters, ordinary bricks, absorbable clinker bricks. The liquid is not suitable for injection in walls with a large number of air empty spaces.

Properties

- Waterproof
- Frost-resistant
- Hydrophobizes and narrows down the capillaries
- Good penetration of humid walls
- For gravitational and pressure methods
- On the basis of silicates
- Vapor-permeable
- Not harmful for the environment

Application procedure

Technical data

Item number	17135
Packaging	
Quantity per unit	5 L/unit
Unit per pallet	120 unit/Pal.
Colour	colourless
Consumption	1 L/lfm.
Density	approx. 1,1 g/cm^3
pH value	12
Drying time	24 h 72 h

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Material base

- Organosilicones
- Silicates
- Water

Application conditions

Apply in temperatures from +5 °C to +25 °C, these temperature refer to air, groundwork and product temperature.

Surface

Before starting renovation works, it is advisable to carry out an accurate analysis of the substrate salinity and moisture state. Substrates should be free from dust, soot, grease, lubricants, anti-adhesive agents, paints, excess mortar etc In the case of injections in the wall, holes should be made at distances of approx. 10–12 cm, inclined at the angle of approx. 25°. If possible, end the drilling at a distance of about 5 cm in front of the other side of the wall. In the case of very wide walls > 60 cm, drill on both sides. The diameter of the drilled hole depends on the injection method applied (10–30 mm). In the case of impregnation, priming and injection, symptoms of biological aggression (fungi, mildew) should be removed using SEPTOBUD 1008 preparation. Old, destroyed plasters with moisture signs, efflorescence must be removed up to the height of 1m above the damage area. All potential efflorescence on an uncovered wall must preliminarily be removed mechanically. All grouts dropping off in a wall must be removed to the depth of 2cm, and next they must be filled with PRIMING RENOVATION PLASTER 920. In the case of surface impregnation, the surface should be additionally moistened with water, and the surface should be mat-humid.
Old plasters: Preferably remove up to 1m above damage zone.
Impregnation, absorbent groundwork: Moisten with water

Preparation

Use non-diluted solution for injections In the case of impregnation, mix the product with water in the 1:5 ratio before use, depending the absorbency of the material.

Application procedure

In the case of injections, apply the liquid into boreholes executed, using a suitable dispenser. Perform the injections until the area surrounding the borehole is fully saturated. In the case of impregnation, apply the product on the groundwork using painting techniques (brush, roller, spray application). In the case of very absorbent groundworks, repeat the procedure, applying the impregnate according to the wet-on-wet principle. Gravitational injection can produce an unexpected effect of horizontal diaphragm in the case of its use in porous materials characterized by minor humidity. In the case of using a low-pressure method (approx. 4-8 bars), it is necessary to fix low-pressure injection packers or plastic injectors in the drilled hole. You can use pumps of such companies as TIKAL, WIWA and other as the injection devices. The process of saturating a wall with the preparation must be controlled on a constant basis to check whether there is no leakage of the injection preparation through scratches, not filled grouts or empty spaces in the wall. Approximate values depending on the saturation time: 30 sec. corresponds with approx. 0.25l, 1 min. approx. 0.5l, Further detailed works must be performed in line with guidelines of the device manufacturer. After the end of the process of making the horizontal membrane, the hole must be filled with MOUNTING MORTAR 425 mixed with water until semi-liquid consistency develops.

Instructions

With injections, liquid consumption depends on the cross section of the wall. With porous materials, consumption can be even 30% higher, with non-absorbent materials, consumption can be c.a. 20% lower. For a 25 cm thick wall, it is c.a. 0.2l per 50 cm, c.a. 0.35l per 100cm, and c.a. 0.7l per 1 borehole. All works carried out outside must be performed in rainless weather, when insolation is not too high and wind is weak. If it is necessary to carry out works in unfavourable conditions, use appropriate shields, reducing an impact of weather factors. Impregnated rooms must be ventilated, however it is necessary to prevent draughts and prevent the mortar from drying up to quickly as a result of sunlight or heating. The fluid must always be applied at the temperature ranging from +5 °C to +25 °C. Temperature > +5 °C must also be maintained within min 3 days from application of the preparation on the bed.

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Storage

The mortar can be stored for up to 12 months from production date in sealed packaging and at temperatures, ranging from +5 °C to +25 °C. The storage area shall be kept out of the reach of children, protected against direct sunlight and located far from heat sources and naked flames. It can be transported by any means of transport, at a temperature not lower than +5 °C. It is not subject to ADR provisions.

General information

This product data sheet replaces all its previous versions.The information, included in this technical card, represents our current knowledge and practical experience. This is general information only which shall not obligate the manufacturer to take any responsibility either for workmanship or for the manner of use. For there may be differences and specific execution conditions.The product shall be applied in accordance with required technical knowledge and OHS rules.Avoid contact with skin and protect eyes. In case of contact with eyes, rinse them up with a large quantity of clean water and consult a doctor. It shall be recommended to use gloves, safety goggles and protective clothing.
All technical data listed in this product specification has been determined under laboratory conditions.

Consumption	
Wall thickness	Consumption per running meter
30 cm	7-10 l
40 cm	8-15 l
50 cm	10-20 l