

SUFFIX INJECTION PUR 2K

Polyurethane Injection Resin-Based, Two-Component, Hydrophobic, Crack Filling and Waterproofing Material

Product Description:

SUFFIX INJECTION PUR 2K is a two-component, polyurethane injection resin very quickly reacting when encountering water. Forms a structure in high mechanical characteristics with a slight foaming as a result of a reaction.

Advantages:

Excellent adhesion to wet surfaces. Applied by using a two-component pump. Produces controlled foam by reacting to water. Affordable. Solvent-free.

Areas of Application:

Building foundations
Tunnels
Dams
Water channels

Technical Specifications:

	Component A	Component B
Color	Colorless	Brown
Density (25 °C), g/cm3	1.03	1.23
Viscosity (25 °C), mPas	250 ± 50	250 ± 50
Mixing Rate (volumetric)	1:1	1:1

Application:

Surface Preparation:

The small particles and remains should be cleaned from the application surfaces. The cracks, the width of which is more than 3 mm, should be covered by a proper material/method. None of the instructions and technical specifications given is binding SPECIFICALLY pursuant to the protective rights of general and third persons and it does not make you exempt from the obligation to analyze the compatibility of our products. Our company is not responsible for any loss incurred due to natural hazards or usage and/or product compatibility or information and instructions for any reason or in any scope. The holes are made at 45° angle depending on diameter of the packer to be used. It is recommended to make the holes to the both

sides of the crack in case the crack is not straight. The hole depth should be as much as the half of the depth of the reinforced concrete thickness. The hole's distance from the crack should be as much as the half of the concrete thickness. The distance between the holes can vary by the present condition between 15-90 cm. The packers should have pressure resistance during injection after packers are placed into holes. Firstly, the injectors spray water in dry environment. This process helps the removal of dusts and foreign matters found in crack/joint. The water found in crack/joint provides the reaction of resin.

Mixing:

The component A (poliol) and component B (isocyanate) are ready for use in 1:1 volume rate and applied by the injection pumps designed for two-component products before mixing. Ensure that the components are mixed homogeneously in static mixer of the injection pump during the application process.

It is crucial that the components should not come into contact with humidity and water. The component B is sensitive to moist. Therefore, it should never come into contact with water. The high humidity may cause a thin layer forming on the surface. In such conditions, the product mixing process must not be carried out, and the pump's suction hose should not plunge into container before removing the layer from surface. These processes can be carried out only after removing the layer from the surface. The containers in which the materials are stored should be closed to prevent early reaction.

Injection:

The injection should begin from the first packer. The injection should begin with the lowest pressure of the injection pump; pressure should be slowly raised until the resin overflows. The pressure may vary between 14-200 bar by the crack size, reinforced concrete thickness and general conditions. The resin leakage rising to the surface from reinforced concrete is a good indicator of that the resin has penetrated to the reinforced concrete. Excess leakages should be blocked by a component/cloth and it is necessary to wait for the expansion of resin. The injection process continues when leakage is blocked. Firstly the water, then the foamy resin and then the pure resin will flow from cracks during the injection process.

The injection process is stopped when resin reaches to second packer.

The injector is placed into second packer and process is repeated. The resin is injected once more by returning to the first packer following the injections from various packers.

The packers can spray water following the resin injection. This process provides the reaction of the remaining resin. Do not remove packers before removing the resin cure.

The holes formed due to packers can be filled with cement-based repair mortar. The water leakage control is carried out following the injection process and if there is no problem, the process is completed by the proper insulating material for the surface.

Cleaning after Application:

The product drying on the equipment may block the important machine parts. All the equipment should be cleaned by a proper material immediately after the application. The stirring equipment may be rinsed with the component A in short pauses. A proper solvent should be used for cleaning after the process is completed or in long-term pauses.

Storage and Shelf Life:

The product should be stored in its original and unpacked package in a dry place between 5°C and 25°C.

If it is stored in the recommended conditions, its shelf life is 9-months from the date of production.

Package

44 kg sets in proportion to component A (resin) and component B (hardener)

Safety Measures:

The proper work clothes, protective gloves, goggles and mask should be used during the application process pursuant to the occupational health rules. The components should not come into contact with skin and eyes due to the irritating effects of the non-cured product. Wash with plenty of water and soap in case of contacting. In case of swallowing, immediately consult a doctor. For detailed information, please apply to Safety Information Form (MSDS) or get in contact with our technical departments. Keep out of reach of children .

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