



SEMPOXY INJECT 2K

TWO COMPONENT EPOXY BASED INJECTION RESIN

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DATE :20.12.2023

REV. DATE.:01.01.2025

REV:02

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1 DESCRIPTION

- **SEMPOXY INJECT 2K**, is two component, low viscosity epoxy based injection resin injected with excellent diffusion fills the cracks and leakages .

2 ADVANTAGES

- It has low viscosity and excellent diffusion.
- Fills the cracks without volume loss.
- It can be injected into damp concrete.

5 PACKAGING

A + B Comp. : 3 + 1,5 kg in metal buckets.

6 TECHNICAL SPECIFICATIONS

3 USES

- It is used to strengthen the structure by filling static cracks in reinforced concrete, stone and solid brick structures.
- Damaged concrete, columns, beams, walls and similar structural elements.
- It can also be used to impregnate concrete surfaces for protection against corrosion.
- It is also suitable for the injection of pressed tiles and the injection of surface concrete castings separated from the base.

4 CONSUMPTION

It varies depending on the concrete surface and cracks.

QUALIFICATIONS	FEATURES	METHODS
Color	Transparent	-
Density	1,10 kg/Lt	ASTM D1475 / DIN 53217 / ISO 2811, @ 20°C
Viscosity	500-700 cP	
Mixing Ratio	100:50	-
Adherence to Concrete	>2 (N/mm ²)	ASTM D4541

* Viscosity measured at + 25°C according to EN ISO 3219 standards. Viscosity increases inversely with temperature.

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7 APPLICATION PROCEDURE

Surface Preparation

The cracks are opened along the surface to form an inverted cone approximately 5-10 mm wide and 10-12 mm deep.

Dust, dirt, etc. are removed with compressed air. The maximum moisture content of the structure to be injected is 3% by weight.

Surface temperature must be at least +5°C (maximum +30°C) and 3°C above the dew point. The relative humidity of the air must not exceed 80%.

Mixing:

The product is carefully mixed until the mass is homogeneous (mechanical mixing, at least 3 minutes). Use the product's own container or another metal container for mixing.

Epoxy develops a strong heat reaction during the curing phase. If cured product remains in the container, the container should be moved to a ventilated area away from flammable or meltable materials and the lid should not be closed until the product is completely cured. When mixing smaller batches the ingredients are measured in parts by weight (see product description), the mixing ratio should not be changed. The product should be used under controlled conditions.

Application:

Injection packers are placed into the drilled hole. SEMPOXY INJECTION 2K is injected into the placed packers with the injection pump via their nozzles.

The injection process is carried out with special pumps (single or double-head). SEMPOXY INJECTION 2K should be applied with a single-head pump if used rapidly, otherwise with a double-head pump. The working pressure should not exceed 5 bar. In general, when injection is started from a packer, it is waited until SEMPOXY INJECTION 2K comes from the closest packer or packers. SEMPOXY INJECTION 2K (epoxy resin) progresses with its own capillary pressure, not with the increased pump pressure in the capillaries.

9 PRECUATIONS

Flammable and explosion products should be kept away during the application. Protective gloves and masks should be used for hands and eyes during application. The product should be used in well ventilated environments. If the material comes into contact with eyes, it should be washed immediately with sufficient water. Children should be kept away from the product. For more detailed information, ask for the Safety Data Sheet (MSDS).

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