



GREPOX INJECTION SOLVENTFREE EPOXY INJECTION RESIN

Product Technical Document

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- DESCRIPTION** : It is a solventfree and without filling epoxy based injection resin with low viscosity.
- APPLICATION AREA** : It fills repairs and bonds by penetrating into the breaks and cracks which are existing on the damaged concrete, column, girder, wall and so on constructional components where the product is injected.

TECHNICAL SPECIFICATIONS

- Code : GREPOX INJECTION
- Number of Component : 2
- Density (mixture) : 1.00-1.10 gr/cm³ 20°C TS EN ISO 2811-1
- Viscosity : 100-300 mPas
- Solid Material (%) : By weight 100
By volume 100
- Application Thinner : Can not be thinned.
- Mixture Ratio : A/B: 75/25 (by weight)
- Pot Life : 30-40 min. /23°C, 200 g. (DIN 16945)
- Application Method : injection pump
- Consumption : differs according the depth of the breaks and cracks
- Drying Time : Surface dry: 3-4 hr. 23°C TS 4317
Dry to touch: 8-10 hr. 23°C TS 4317
Complete curing: 7 days 23°C TS 4317

CHEMICAL STRENGTH TABLE

<u>CHEMICAL</u>	<u>STRENGTH</u>
Sulfuric acid (H ₂ SO ₄) %10	3_2
Sulfuric acid (H ₂ SO ₄) %20	3_2
Hydrochloric acid (HCl) %10	3_2
Hydrochloric acid (HCl) %20	3_2
Nitric acid (HNO ₃) %10	3_2
Nitric acid (HNO ₃) %20	3_2
Acetic acid (CH ₃ COOH) %10	3_2
Acetic acid (CH ₃ COOH) %20	2
Lactic acid (CH ₃ CHOH-COOH) %10	2
Lactic acid (CH ₃ CHOH-COOH) %20	2_1
Formic acid (HCOOH) %10	2
Formic acid (HCOOH) %20	2_1
Xylene	2
Ethyl alcohol	2

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Solvents 2

Chromic acid (H₂CrO₄) %10 2

Sodium hydroxide (NaOH) 3

3- Extra strong**2- Strong****1- Not strong****_ Tendency****MECHANICAL STRENGTH**Tensile Strength (N/mm²) 12 ~ 15 DIN 53504 TS 1967

Tensile Strain (%) 9 ~11 DIN 53504 TS 1967

E-module (N/mm²) ~ 1200 DIN 52371 TS 985Bending Strength (N/mm²) ~ 10 DIN 52371 TS 985**APPLICATION METHOD**

: Craks are enlarged with grinder and inside of them purified with air. Purified crack is repaired by rapid curing epoxy paste. Approximately 2.5 hours later, after packers have mounted by drill, GREPOX INJECTION injection resin is injected by injection pump.

PACKAGE

: A/B: 2.25/0.75 = 3 kg set

STORING INFORMATIONS

: The packing of the product must be closed and its label informations must be complete. The expiration date of the product must be followed according to FIFO (First in First Out) rule. The storage conditions must be dry, cool and well ventilated. The product must be stored according to the technical safety informations and legal obligations. . It has a shelf life of 12 months in a close storage without moisture at 15–25 °C, in its original unopened package.

HEALTH AND SAFETY

: Please pay attention to the safety signs and warnings on the packet. You should follow the safety and health instructions of the Material Safety Data Sheet (MSDS) that is prepared by certified technical team, according to international standart. Sufficient air-conditioning must be obtained by the time of application. Mask and gloves must be worn. Do not make direct contact or breath the vapour. Keep the product away from open flame resources.

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