

TWO COMPONENT ELASTIC POLYURATAHNE INJECTION RESIN

Description

EP GROUT PU2K is a solvent-free thin liquid, two-Component polyurethane resin.

EP GROUT PU2K is slow reacting and hardens to a non-foaming, non-rigid, pore free material which slightly foams

when put into contact with water. EP GROUT PU2K bonds to a dry, moist surface and offers an excellent adhesion and tears resistance. EP GROUT PU2K has a low glass transition temperature and resists to winter temperatures without causing embrittlement and widening of cracks due to low temperatures without tearing.

Uses

EP GROUT PU2K is used for

- For leaking cracks, the water is stopped by EP GROUT PU2K as a temporary stop; the crack can be permanently sealed after injection with to form an elastic seal.
- Beams and slab columns.
- Water retaining structures.
- Sewage treatment plants.
- Substructure concrete constructions.

Advantages

- Due to its low viscosity it can penetrate into cracks >0.2 mm in width
- Suitable for hot and cold climates.
- Good adhesion to dry, moist or wet concrete
- Can be pumped as a single component premix because of the long pot life.
- The cured material is non-toxic.
- The system is suitable for use in contact with potable water.

Technical Data

EP Grout PU2K	
Mixing ratio	2:1
Viscosity at 25 °C	150 - 240 mPa·s
Processing times at +25 °C	25 - 35 minutes
Density at 25 °C	Comp. A at +25 °C 1.050 ± 15 g/ml Comp. B at +25 °C 1.120 ± 15 g/ml
Gelling time/hardening time	13.0 ± 1.0 h @+25° C
Shore-A-Hardness	60 - 70
Tensile strength (acc. To ASTM D 623)	Approx. 2 MPa
Elongation (acc. To ASTM D 623)	60 - 80%

Application Instruction

Instruction of use:

- Due to long pot life of EP GROUT PU2K, it can be pumped as a single component pre-mix
- Pour the content of part A in a clean dry, plastic bucket.
- Add the required amount of Part B.
- Mix thoroughly by hand or low speed stirrer for about half a minute until the mix is homogeneous.
- Inject EP GROUT PU2K into the holes with a high-pressure pump having a covered reservoir to avoid moisture coming into the mix.
- The injection pressure should be at least 200 Bar. This forces deep into the structure and allows penetration into the smallest cracks.
- Inject the packers sequentially, on a vertical crack start the injection from the lowest packer and continue to the next packer.
- For small cracks pump according to the previous point and if foam comes out of the front from the crack do a second injection according to the same procedure. If still foam comes a third time until pure resin comes out on the front from the crack.

Processing Tools:

Hand lever press, foot lever press, 1 component pump (Airless or piston pump) or 2-component pump (working with the 2-component pump requires the use of the metal special mixer when correct product quality is to be guaranteed).

Cleaning of Tools:

Clean tools and equipment with FCSC recommended cleaning agents immediately after use and before the resin sets. Once the resin is set, it can only be removed by mechanical means.

Packaging

EP GROUT PU2K is supplied in packs of 5.0 kg (3.15 kg A-component and 1.85 kg B-component)

Consumption

Consumption: approx. 1000 g/l.

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Storage and Shelf life

12 months in closed original packs, in a cool and dry place between 10 and 30°C. Storage has to be affected in accordance with the regulations for the storage of water hazardous substances.

Safety Precautions

EP GROUT PU2K is nontoxic and non-flammable in nature. However, normal safety gadgets like goggles, gloves should be used while handling the material. Avoid breathing of vapours, when it contacts with skin, should be cleaned immediately. Seek medical advice in case of contact with eyes.

Disclaimer

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