

ShaliGrout® PU 2K



Two component, low viscous, Polyurethane Injection Resin Grout

STP Limited

Description

ShaliGrout® PU 2K is two component, low viscous solvent and phthalate free polyurethane injection system for the elastic sealing of cracks in concrete structures. When mixed in proportions **ShaliGrout® PU 2K** reacts to form a tough, flexible resin.

Characteristics

Intended Use	Ductile filling of cracks	Gel time, minutes	70 - 90
Moisture state of the crack	Dry, wet, moist cracks	Recommended temperature range	5°C - 45°C
Pot life, minutes	60 - 80	Mixing Ratio	2 : 1 by volume

Technical Specification at 25°C and 50% RH

Property	Typical Results
Mixing ratio p.b.w.	100:60
Mixing ratio p.b.v.	2:1
Viscosity of the mix mPa.s	140-165
Tensile Strength, MPa	1.5-2.5
Elongation at Break, %	30-50
Shore A Hardness	50-70
Min width of the crack, mm	0.1
Corrosion behavior	Deemed to have no corrosive effect

Application

- For leaking cracks, the water is stopped by **ShaliGrout® PU** as a temporary stop; the crack can be permanently sealed after injection with **ShaliGrout® PU 2K** to form an elastic seal.
- Beams and slab columns.
- Water retaining structures.
- Sewage treatment plants.
- Substructure concrete constructions.

Advantages

- Low viscosity allows full penetration of cracks and voids.
- Suitable for hot and cold climates.
- Good adhesion to dry, moist or wet concrete or masonry and can withstand high hydrostatic pressures as the cured resin is impermeable to water.
- 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.
- The cured material is stable after curing.

Application Methodology

- Due to long pot life of **ShaliGrout® PU 2K**, 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 **ShaliGrout® PU 2K** 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 etc.
- 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.

Cleaning & Maintenance

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

Health & Safety

- Use mask, nose cover and hand gloves during application.
- Clean hands with soap water after application.
- Avoid contact with skin / eyes. In case of unlikely contact with eyes, rinse immediately with plenty of clean water, then cleanse with soap and lukewarm water and seek medical advice. Do not use solvent to clean the contacted area.
- Prevent swallowing. In case of unlikely swallowing, seek medical attention immediately. Do not induce vomiting.

Packing

Available in 8 kg pack (5 kg Part A, 3 kg Part B).

Storage

Store in cool dry place, under the shed, away from heat, water. Once a pack has been opened, use immediately. Purging a part pack with nitrogen is also essential.

Shelf Life

6 months in original unopened sealed conditions when stored between 5°C - 35°C.



STP Limited
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