

# ShaliGrout EI LP

2K Low Viscosity Epoxy Injection Grout



## Description

**ShaliGrout EI LP** is solvent free, two component epoxy injection grout designed as a moisture insensitive adhesive for numerous injection and sealing needs. It is used for injecting into cracks, honeycombs and cavities in concrete structures of gap widths from 0.25 mm up to 10 mm.

## Product Information

<b>Form, Colour, Mixing Ratio</b>	Component A: Colourless and Component B: Amber Colour Component A: Component B= 38:12 by weight
<b>Handling &amp; Storage</b>	Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates the product must be stored in an air-conditioned environment. Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.
<b>Packaging</b>	Available in 2 kg (A+B) with Part A = 1.52 & Part B = 0.48 kg unit pack of 5 sets in one carton.
<b>Shelf Life</b>	12 months from the date of manufacture when maintain in protected storage in original unopened sealed condition at 5 - 38°C.
<b>Handling Precautions</b>	As with all chemical products, care should be taken during use and storage to avoid contact with eyes mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek immediate medical attention. Keep away from children and animals. Reseal containers after use.

## Technical Characteristics @ 27 °C, 55% RH

Tensile Strength, 7 days (ASTM D 638), MPa	60 - 65	Elongation at break (ASTM D 638), %, 7 days	3 - 4
		Shear Bond strength (ASTM C 882), MPa	24 - 28
Compressive Strength, 7 days, MPa	70 - 80	Shore D Hardness (ASTM D 2240), 7 days	80 - 85
Gel Time, minutes	45 - 60	Density, gm / cc	1.10 ± 0.03

## Field of Application

- Permanent bonding of structural damage.
- Parking structures.
- Marine structures.
- Retaining walls.
- Earthquake damage.
- Vertical and overhead applications.

## Advantages

- Excellent adhesive for pressure injection of fine cracks.
- Moisture insensitive for bonding with dry or damp surfaces.
- Suitable for a wide range of loading situations including repetitive dynamic loads.
- Penetrates deep into concrete cracks and fissures.

## Surface Preparation

- ✓ Surface must be strong, dry, clean & free from dust, oil, grease, curing compounds, coatings & other loose materials.
- ✓ For better performance sand blasting, high pressure water jet cleaning, hydrochloric acid etching, mechanical grinding (by pneumatic tools) & wire brushing may be done.

- ✓ In case of acid etching, wash the surface till neutralization.
- ✓ Open the cracks & clean by blow of oil free air to ensure complete removal of dust & loose particles.

### Application Methodology

- Ensure that temperature is in the range of 16°C - 32°C.
- Thoroughly mix the entire hardener and base resin contents until the liquids become clear.
- **ShaliGrout EI LP** can be gravity fed or pressure injected into horizontal cracks.
- Pressure injects **ShaliGrout EI LP** into vertical and overhead cracks.
- Insert one way polyethylene valves or ports into drill hole at the face of the crack. Inject the material with an epoxy injection machine or other mechanical means.
- Make sure that injection equipment is properly set.
- After mixing, pour or squeegee epoxy into crack and allow seep in. Continue to apply material until crack is full.

### Precautions

- Use the material within the pot life expiry period.
- Do not dilute the material with solvents to reduce the viscosity.
- Do not part mix. Mix entire pack quantity.
- After completion of the injection work, the injection system shall be allowed to cure for 24 hours and shall be left undisturbed for this time.
- Grouts should not be placed in any unrestrained situation, i.e., base plate plinths, etc. Failure to comply may lead to crack development in the grout.

### Value base of product data

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control and different test methods.

### Health and Safety information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent **Material Safety Data Sheet**.

- Avoid contact with eyes and skin.
- Wear suitable protective clothing such as overalls, goggles, dust mask and gloves. Ensure that there is adequate ventilation in the area where the product is being applied.
- Do not breathe in vapour or spray mist.
- This product is flammable.
- In case of fire, blanket flames with foam, carbon dioxide or dry chemicals.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- In case of skin contact, wash with soap and plenty of water. Get medical attention if irritation develops or persists.

### Cleaning & Maintenance

Clean all tools immediately after use with STP Thinner only. Do not allow the material to harden.



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- Epoxy Flooring
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- RestoFix- Repair / Rehabilitation
- Other Construction Chemicals



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