

TOP Grout LV

Low Viscous epoxy injection resin grout

PRODUCT DESCRIPTION

TOP Grout LV is a two component solvent free crack injection material composed of very low viscous liquid epoxy resin & hardener system. It is designed for injecting into narrow gaps, cracks and voids ranging from 0.1mm to 10mm.

USES

TOP Grout LV is used for injecting into cracks, beams, columns, walls and structures honeycombs and cavities in concrete structures. It can also be used for grouting base plates with very narrow gaps, permanent bonding solution for concrete cracks.

ADVANTAGES

- Solvent free Low viscosity - Can be injected into fine cavities and narrow gaps.
- High mechanical strength - Performs even under heavy loads and stresses.
- Resistant to dynamic loading
- High bonding strength can restore the structural integrity of the concrete.
- High compressive, tensile and flexural strengths

TECHINICAL PROPERTIES

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| Color & Appearance | Pale Yellow Liquid |
| Bond Strength | >2.5 Mpa Concrete Failure |
| Compressive Strength @ 7 days (ASTM C579) | 70 Mpa |
| Flexural Strength @ 7 days | 55 Mpa |
| Tensile Strength @ 7 days | 18 Mpa |
| Shear Strength @ 7 days | >18 Mpa Concrete Failure |
| Application Temperature | 15°C - 35°C |
| Density | 1.05 kg/l |
| Viscosity 25° C | 220 ± 50 cps |

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|-------------------------|------------------------------------|
| Pot Life | 50 Mins @ 25° C 30 Mins @ 40° C |
| Application Temperature | 15°C - 35°C |
| Mix Ratio | 100:50 Pbw |

PACKING

TOP Grout LV is supplied in 1,10 Ltr and 0.5,5,10 Liter kit.

COVERAGE

TOP Grout LV will have coverage of 1.1 kg/m². The coverage can vary depending on the surface condition.

STORAGE

12 Months in Unopened Packaging. Protect from Rain, Direct Sunlight, Heat and Frost, Empty packs completely and dispose off carefully to protect our Environment.

APPLICATION PROCEDURE

SURFACE PREPARATION: Clean the surface and remove any dust, unsound or contaminated material, plaster, oil, paint, grease, corrosion deposits or algae. All metal components to be in contact with grout must be free of rust, paint, or oil should be removed by etching with cleaning agent and wire-brushing.

MIXING:

Proportion part kits accurately mixing only what can be used in less than 30 minutes. **TOP Grout LV** Mix the entire Part A and Part B using a slow speed mixer fitted with a suitable paddle.

All epoxy systems will develop a temperature rise on mixing. Its extent will be a function of the volume to surface ratio, the ambient temperature as well as the mass and thermal conductivity of the surrounding materials.

The injection ports should be applied over 6-10mm diameter holes drilled at least 50-75mm into the concrete element. For deeper penetration deeper holes should be considered. Use **Top Fix EP** to adhere the injection ports over the holes ensuring that the adhesive does not block the drilled holes. Allow the **Top Fix EP** to cure before injecting. The ports should follow the crack at intervals of 500mm or a maximum of 1m Centers. Inject from the lowest point or furthest point towards the centre checking for resin coming out of the next hole along. After all the holes are completed, the nipples are removed next day and the holes shall be sealed with a high strength mortar and allow curing.

CURING

Cure time will vary depending on the ambient temperature, quantity mixed and placed, Will have fully cured after 7 days at 23°C.

CLEANING

All tools and equipment should be cleaned immediately after use with NC Thinner. Cured resin can only be removed mechanically.

SAFETY PRECAUTION

Contact with skin and eyes should be avoided. Gloves should be used when handling these products. If contact with the resin occurs, wash immediately with a strong detergent or a resin removing cream. Eye contamination must be immediately washed with plenty of water and medical treatment sought.

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