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TECHNICAL DATASHEET

ASCOGROUT EP LV

2-Part, Low Viscous Non-Shrink Epoxy Injection Grout

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PRODUCT INTRODUCTION

Ascogrout EP-LV is a two-part, low viscous, non shrink epoxy injection grout based on specially selected epoxy resins and hardeners to produce a highly fluid grout for injection in cracks of masonry and concrete. Ascogrout EP-LV is penetrative in structural injection and grouting repairs. It can be used as a primer for porous concrete or as a sealer for floor toppings.

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KEY FEATURES

1. Very low viscosity.
2. Excellent penetration.
3. High bond strength.
4. Easy application.
5. Excellent adhesion to damp and dry surface.
6. Convenient mix ratio.
7. Fast hardening.

RECOMMENDED APPLICATIONS

1. Can use on interior/exterior, horizontal, overhead and vertical surfaces.
2. Bridges, dams, tunnel, etc.
3. Beam, column, retaining walls, etc.
4. Pressure injection.
5. Gravity feed hairline cracks.
6. Sealer for concrete toppings.
7. Primer for porous concrete.
8. Can use to restore and seal concrete surfaces.
9. Improvement of concrete's wear ability.

TECHNICAL PROPERTIES

Appearance	Part A – Clear resin Part B – Pale yellow hardener
Mixing ratio	2:1 (A:B)
Fresh wet density	1070 ± 50 Kg/m^3
Pot life	40 ± 5 minutes
Density	1.07 ± 0.05 Kg/L
Slant shear bond strength	35 N/mm^2 @ 14 days
Compressive strength	50 ± 2 N/mm^2 @ 1 Day 70 ± 5 N/mm^2 @ 7 Days
Tensile strength	18± 2 N/mm^2 @ 7 Days
Flexural strength	8 ± 1 N/mm^2 @ 7 Days
Service Temperature Range	-20°C to 60°C

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APPLICATION METHOD

1. PREPARATION

Evaluate the structural joint or crack for injection. Cracks should be V-shaped to allow the material access and create head pressure for adequate penetration. Drill holes either side of the crack, sloping towards the crack at an angle of approximately 45°C, at a distance of 120mm – 150mm from cracks. Insert packer (nozzle) at a depth of approximately 100mm. The spacing of packers (nozzles) will vary depending on the cracks.

2. SURFACE PREPARATION

The substrate should be clean, dry and free from dirt, oil, grease, and coatings, etc. Weak concrete should be removed and surface defects such as blowholes and voids should be exposed to repair.

3. Mixing

Mix the two components, Part-A (resin) and B (liquid hardener), packed in two separate containers, in predetermined mixing proportion. Mixing of the two components should take place for approximately 2-5 minutes, using a low revolution mixer (400 rpm). It is important to stir the mixture thoroughly near the sides and bottom of container, to achieve uniform dispersion of the hardener. Do not over-mix as it will cause the epoxy to flash set.

4. Application Method—Injection Grouting

i. Application to be carried with the help of hydraulic pumps, paint pressure pots, air-actuated caulking guns and hand-operated application guns.

ii. Then start pumping at the widest part of cracks and proceed outwards along its length in each direction.

iii. Turn on the pump and slowly increase the pressure to 30 bar.

iv. Stop pumping for every liter injected and allow one to two minutes for setting.

v. Start and stop the injection until the packer (nozzle) no longer accepts material or you have reached the specified pressure.

vi. Then move to the next packer (nozzle) and repeat the injection process.

vii. Continue until the crack is full and adequately sealed.

5. Precautions

i. Do not apply on dusty substrate.

ii. Do not dilute it with thinner, solvents or water.

iii. Do not apply on surfaces subject to capillary-action rising damp.

6. Curing

Optimum performance level is reached after 24 hours of curing.

7. Health and Safety Guidelines

i. Use personal protective equipment (PPE) to use ASCOGROUT EP LV for storage and application

ii. If come in contact with eyes, immediately wash eyes with plenty of water and seek medical advice.

iii. Use of safety goggles, nose mask and hand gloves are recommended to protect eyes, skin and mouth while in use.

(Material Safety Data Sheets are available through our company's representative or from our ASCOLITE's website)

8. Packaging

ASCOGROUT EP – LV is available in packages of 1.5 Kg.

9. Shelf Life

12 months from the date of production if stored in original, unopened packaging and in places protected from moisture, sun exposure and frost.