



Ronabond EP LV Crack Injection Resin

Description

Ronabond EP LV Crack Injection Resin is a two pack, solvent free, low viscosity epoxy resin designed for filling in cracks and voids in concrete, brickwork and masonry.

This allows the ready consolidation of structures, and prevents water and salt ingress, thereby obviating freeze thaw damage and re-bar corrosion.

For small scale repairs on site Ronabond EP LV Crack Injection Resin may be part mixed in the ratio of 2:1 by volume (base to hardener).

For large scale injection work Ronabond EP LV Crack Injection Resin may be used with automatic pumps.

Typical Uses

Injection of cracks in concrete, brickwork and masonry. Filling voids and joints where little or no movement is anticipated.

Advantages

- Easy to use
- Convenient 2:1 volume mix
- Low viscosity - highly penetrating
- High strength
- Excellent bond strengths to concrete, brickwork and masonry
- Suitable for damp or dry surfaces
- Water and weather resistant
- Penetrates cracks from 0.2mm up to 20mm wide

Typical Properties

| | |
|-----------------------|---|
| Viscosity: | 300 cps @ 20°C |
| s.g: | 1.07 |
| Pot Life: | 70 minutes @ 20°C |
| Compressive strength: | 75N/mm ² |
| Adhesion to concrete: | 4.4N/mm ² (concrete failure) |
| Shore D Hardness: | 75 |

Application Temperature

Material can be used at material, air and substrate temperature of 3°C to 30°C. Note that viscosity may be too high at lower temperatures, and higher temperatures will shorten pot life and use must stop when viscosity is too high or pot life is too short.

Procedure

1. Surface Preparation

Surfaces to be treated shall be clean, sound and free from contaminants. Cracks should be raked out and air or water flushed to remove the contaminants.

2. Mixing

Mix the base and hardener components together preferably by mechanical means, until a uniform consistency has been achieved.

3. Application

Apply the Ronabond EP LV Crack Injection Resin by gravity feed or by gunning or pumping into the cracks. Injection flanges may be attached along the crack length at nominal 150mm intervals, using Ronabond EP Thixo. For filling of voids, simply fill by pouring. Once the resin has cured it can be ground down to level.

4. Equipment Cleaning

Clean all equipment, immediately after use, using Ronabond EP Cleaner.

5. Curing

Ronabond EP LV Crack Injection Resin will be touch dry after 6 hours at 20°C and hard dry after 10 hours @ 20°C. Full mechanical properties will be achieved following 7 days cure @ 20°C. At lower temperature curing times will be extended.

6. Packaging

1, 2, 5 and 75 litre packs

7. Material consumption

The consumption of Ronabond EP LV Crack Injection Resin is very much dependant on the depth and extent of cracks within the substrate.

8. Storage and Shelf Life

Store in dry conditions out of direct sunlight at temperatures between 10°C and 25°C. Ronabond EP LV Crack Injection Resin has a shelf life of 12 months when stored in original unopened containers in accordance with the manufacturers instructions.

9. Limitations

Do not apply to uncured concrete. Do not apply at temperatures below 3°C.

10. Health and Safety

Avoid contact with skin and eyes using appropriate gloves, clothing and eye protection. Wash off all splashed immediately using soap and water.

If contact with eyes occur, irrigate with copious amounts water and seek medical attention. Please refer to Material Safety Data Sheet for additional information.

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