

## Description

rbs Injection Resin LV is a two component low viscosity epoxy resin specially designed to be injected or poured into cracked substrates. The resin will structurally bond the fractured sections and seal fine cracks permanently against ingress of water and aggressive agents. rbs Injection Resin LV complies with BS EN 1504-5.

## Uses

- Repairing fine cracks to precast units, suspended concrete, floors & decks.
- Repair crack widths 0.1 to 10mm.
- Structural repairs to concrete & masonry.
- Crack repairs to concrete bridges, retaining walls and highway structures.
- Crack injection to liquid retaining structures and treatment works.
- Plastic shrinkage & drying shrinkage cracks in new construction.
- For grouting under machine base plates with dynamic loadings where gap thicknesses are 0.25 – 10mm.
- Suitable for all horizontal repairs including delaminated floors.

## Directions For Use

**Substrate preparation** – A successful application depends on very thorough preparation. The crack to be treated must be dry and free from grease, oil, dust and other contaminants. Any loose material must be blown clear, before the surface of the crack is sealed with a fast setting putty/mortar, which could also be used to surface fix the injection nipples. The distance between the injection nipples/ports should be greater than the estimated depth of the crack (typically 1.5 times).

**Mixing** – The two components of the rbs injection resin LV should be thoroughly mixed together, using a suitable mixer attached to a slow speed drill, taking care not to entrain air into the mixture. The homogenous material can then be transferred to a suitable injection cartridge/gun ready for application. For smaller repairs rbs Injection Resin LV may be part mixed in the ratio of 4:1 by volume (Resin to Hardener Component).

**Application** – Attach the plastic injection hose over the first (lower) nipple with a jubilee clip, and gently pump the resin until it begins to flow from the adjacent nipple. Remove the injection hose and plug the injected nipple. Move the hose up to the next nipple and repeat

the injection process progressing along the crack line until all the nipples are injected. After the resin has been allowed to cure, the injection nipples should be removed and any holes or voids made good.

**Curing** – rbs Injection Resin LV will be touch dry after 5 hours @ 20°C and hard dry after 10 hours @ 20°C. Full physical properties will be achieved after 7 days @ 20°C.

**Cleaning** – All tools should be cleaned using a proprietary solvent-based cleaner before the material hardeners. If the resin is allowed to set it can only be removed by mechanical means.

## Technical Data

Specific Gravity	1.07
Viscosity	350-450 cps @ 20°C
Pot Life	20-30 min @ 20°C

N.B. In common with other epoxy resin systems rbs Injection Resin LV should not be applied at temperatures below 5°C.

Compressive Strength	70 MPa
Adhesion to Concrete	4.4 MPa (concrete failure)
Shore D Hardness	75
Shrinkage % (free de-bonded)	Negligible

## Packaging

rbs Injection Resin LV is a two component material supplied in a pack yielding 5 litres.

## Storage

Store in dry, cool, frost-free conditions. Under such conditions the shelf life will be at least 12 months.

## Health & Safety

rbs Injection Resin LV consists of epoxy resins and hardener systems, which are currently classified as hazardous materials. Wear suitable protective clothing, eye/face protection and gloves, and ensure adequate ventilation. For further Health and Safety information, please refer to the relevant Safety Data Sheet.

## Important Note

Whilst all reasonable care is taken in compiling technical data on the Company's products, all recommendations or suggestions regarding the use of such products are made without guarantee, since the conditions of use are beyond the control of the Company.

It is the responsibility of the customer to satisfy themselves that each product is fit for the purpose for which they intend to use it. Ensure that the actual conditions of use are suitable, and that in the light of our continual research and development programme, the information relating to each product has not been superseded.

The information given on this sheet is, to the best of our knowledge, true and accurate. No guarantee of the results implied, or any loss or damage arising out of this material, however, are possible as the conditions of application are beyond our control. This is not withstanding any liability arising from the Consumer Protection Act 1987 and the Health & Safety at Work Act. Health and Safety data is available on this product and should be referred to prior to its use

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