rbs Injection Resin TE

Description

rbs Injection Resin TE is a two component thixotropic epoxy resin specially designed to be injected into cracked substrates. The gel consistency allows injection to floors, walls and soffits, structurally bonding the fractured sections and seal fine cracks permanently against ingress of water and aggressive agents. rbs Injection Resin TE complies with BS EN 1504-5.

Uses

- Repairing fine cracks to precast units, suspended concrete, floors, walls, decks and soffits.
- Repair crack widths 0.5 to 10mm.
- Structural repairs to concrete & masonry.
- Concrete bridges & highway structures.
- Plastic shrinkage & drying shrinkage cracks in new construction.
- Crack injection to liquid retaining structures and treatment works.

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). Before injection it is important that the cracks are blown out with clean, dry compressed air to ensure both the complete removal of all dust and other loose particles and the continuity of injection path. Alternatively, for open crack (5-20mm) applications it is often possible to extrude rbs Injection Resin TE directly into the open crack without the need to seal face and fix nipples. The successful application in these wider cracks is dependant upon factors such as the shape and dimensions of the crack, its orientation, and the total volume of the material to be placed.

Mixing – The two components of the rbs Injection Resin TE 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.

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.

N.B. In common with other epoxy systems rbs Injection Resin TE should not be applied at temperatures below 5 °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	1.25 - 1.30
Pot Life	30-40 min @ 200C
Viscosity	Thixotropic

Typical ultimate physical properties:

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

Packaging

rbs Injection Resin TE 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 TE 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.

Revison Date: September 2023

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 himself that each product is fit for the purpose for which he intends to use it, 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

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