

Description

rbs PGI Injection Resin is a low viscosity polyester resin specifically designed to be injected into cracked substrates to permanently seal and structurally bond such substrates. rbs PGI Injection Resin comes in standard and rapid grade, which is suitable to use all year round.

It is a fast setting product, please refer to the set time table for guidance.

Uses

- Vacuum grouting and consolidation of concrete pavements.
- Crack injection of concrete slabs.
- Filler joist repairs to balconies and composite floor construction.
- Consolidation of honeycombed concrete and cavities.
- Vacuum resin injection to stabilise concrete and masonry elements.

Directions for Use

The following notes are of necessity general in nature, since each injection application is unique and must be assessed on its own merits, but they may be used as guidelines.

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 with clean dry compressed air.

The surface of the crack can then be sealed with a fast setting composition which could also be used to grout in 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 - For mixing ratios please refer to the set time table for guidance. The two components of the injection resin 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 homogeneous material can then be transferred to a suitable injection gun ready for application.

Application - It is important to use the correct grade of resin according to seasonal conditions, i.e at around 15°C use standard grade resin at around 5°C use rapid

grade. The resin should be injected into the first (lower) nipple until it begins to flow from the adjacent nipple, the hose is disconnected and the first nipple closed off.

The resin is then injected into the second nipple, until it flows out of the third; this process is repeated until the whole crack has been injected. After the resin has been allowed to cure, the injection nipples should be removed and any holes or voids made good.

Cleaning - All tools should be cleaned before the material hardens using a proprietary low hazard cleaner. If the mortar is allowed to set it can only be removed by mechanical means.

Technical Data

Specific Gravity	1.10 +/- 0.02
Viscosity @ 25°C	130-170 mPa.s
Pot Life	50-70 minutes @ 10°C

Typical ultimate physical properties:

Compressive Strength	55 MPa
Modulus	1.95 GPa
Shrinkage % (free debonded)	7.0 approx

Set Times

Controlled laboratory temperature of 18°C

The addition of Peroxide Catalyst is measured in grammes per 100g of Polyester Resin.

Peroxide Catalyst Addition	802 Polyester Resin Standard 100g	822 Polyester Resin Rapid Setting 100g
3g	92 mins	44 mins
4g	69 mins	27 mins
5g	50 mins	20 mins
6g	41 mins	17 mins
7g	30 mins	15 mins
8g	27 mins	13 mins
9g	27 mins	12 mins

Health & Safety

rbs PGI resin component contains styrene, which is currently classified as a hazardous material. It is flammable, with a flash point of 32°C.

Wear suitable protective clothing, eye/face protection and gloves, and ensure adequate ventilation. The mixed material (cured material) is inert in nature. Any waste material is non-hazardous material and can be disposed as it is.

For further health and safety information, please refer to the relevant Safety Data Sheet.

Packaging

rbs PGI Injection Resin is available in a 223 litre unit.

Storage

Store in dry, frost-free conditions away from direct sunlight, above 5°C and below 25°C. Under such conditions the shelf life is at least twelve months.

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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