

HPG 130 HYDROPHOBIC POLYURETHANE INJECTION RESIN

Description

HPG 130 is a semi flexible MDI based polyurethane injection resin. HPG 130 has been designed as a single shot system which is to be injected into leaking cracks via injection ports. It reacts with water to form a resilient and semi flexible plug that seals leaks in masonry structures. The required rate of expansion and reaction to water can be altered with the inclusion of the HPG 130 Catalyst.

Benefits

- Outstanding adhesion to both wet and dry surfaces.
- Repels water in a cured state.
- Controllable rate of expansion.
- Operational in a pH range of 3-10.
- 100% solids.
- Cures inert, creating a permanent, non-toxic watertight seal.
- Australian made.

Uses

- Ideal for sealing cracks in;
- Water retaining structures.
- Waste treatment plants.
- Basements.
- Below grade parking garages.
- Storm water systems.
- Tunnels.
- Lift pits.

Technical data @ 23°C

Colour - Amber

Solids - 100%

Viscosity - 550-650cps

Density - 1.2kg per litre

Flash Point - >150°C

Application Temp - 0°C to 40°C

Reaction Time - Variable

Catalyst (by volume) - up to 5%

How to apply

Preparation/set up

Clean crack with a wire brush and, if applicable, seal the crack with the appropriate compound.

Drill holes (to suit the size of the selected injection port) at a 45-degree angle to intersect the crack to be filled at approximately the mid-section of the concrete thickness. Alternate holes whenever possible, from one side of the crack to the other. The spacing is determined by the width of the crack in relation to the concrete thickness.

Install injection ports or packers into the pre-drilled holes so that the top of the sleeve is just below the concrete surface. Flush the cracked concrete or joint with potable water before pumping.

Addition of catalyst (optional)

Mix the HPG 130 catalyst together with the HPG 130 injection resin at a rate between 1% to 5% maximum by volume, prior to the injection works commencing. Run a small test if the reaction time is critical.

Injection

Inject the product into the substrate via the installed injection ports, beginning at the lowest packer or beginning with the first packer that was flushed on the horizontal crack. Repeat the injection of the first packer after pumping a number of ports. Pressure may vary from 200 – 2,500 psi (1.4 – 17.2 MPa), depending on crack thickness, concrete thickness, and contamination.

Clean Up

To clean the OUTSIDE of the injection pump, wipe down with acetone or similar solvent. To clean and lubricate the INSIDE of the injection pump flush thoroughly with HPG Cleaner. Follow proper waste disposal methods for solvents.

Packaging

HPG 130 is supplied in 20kg containers.

Personal Protection

- Avoid breathing in the vapour.
- Use only in a well-ventilated area.
- Wear an appropriate respirator.
- Wear protective gloves.
- Wear protective eye wear.
- Wear protective coveralls.
- Avoid contact with skin.
- Carefully read the MSDS and PDS prior to commencement of works.

First Aid

In case of eye contact, flush with large amounts of fresh clean potable water and seek medical attention immediately. For skin contact, wipe excess resin from the affected area and wash vigorously with soap and water. If breathing becomes difficult provide oxygen and seek medical attention.

Transport

Classified as non-dangerous goods. In accordance with the WHS Regulations and the ADG code.

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Storage

HPG 130 is moisture sensitive by nature and must be stored in original sealed containers at temperature between 10°C and 35°C. Opened containers must be handled in a way to prevent moisture contamination.

Shelf life

12 months in properly stored and unopened containers.

Limitations

This data sheet is intended as a guide to aid in the consideration and/or application of the product. There are varying factors including, but not limited to, pH levels of the ground water, humidity, ambient temperature, reaction under confinement, etc. It is always recommended to carry out tests, prior to commencement of works, to establish the procedure required to achieve to desired result.

Accessories

HPG 130 Catalyst - 1 litre

HPG 130 Cleaner - 20 litre

Zerk Style Port - 10mm x 100mm

Zerk Style Port - 13mm x 150mm

Drill Pump - Standard

Drill Pump - Heavy Duty

DISCLAIMER

The technical information and application advice given in this Technical Data Sheet is based on the present state of Allduro's best scientific and practical knowledge and is intended to give a fair description of the product and its capabilities. As the information contained herein is of a general nature, no assumption can be made as to a product's suitability for a particular use or application and no warranty as to its accuracy, reliability or completeness, either expressed or implied, is given other than those required by law. In practice, the substrate and environmental conditions vary widely, making it essential for the user to determine the product's suitability for a particular application and that the product is not used beyond its physical limitations. The user is responsible for checking the suitability of products for their intended use.

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