

Polygrout GR 502

Polyurethane based, two component, low viscosity injection resin

Description

Polygrout GR 502 is a two component, low viscosity, hydrophobic polyurethane injection resin formulated to produce a highly resilient flexible gasket.

Polygrout GR 502 is based on a polyol component (part A) and a polymeric MDI (part B). When mixed, a hydrophobic polyurethane is formed which is tough, rigid and resistant to a wide range of chemicals. **Polygrout GR 502** slow set has a long open time allowing for greater penetration into fine void and fissures.

- Potable water certified
- High compressive strength & bond strength.
- Bonds to even dry surface
- Rapid reaction for fast water cut off
- Solvent free, environmentally safe

Fields of application

- To stop water leakage from cavities and cracks of concrete walls and floors of tunnels, bridges, sheet piles and similar constructions.
- To insulation of cold joints,
- On water tanks and swimming pools,
- Ground Consolidation
- To insulation of interior basements. rods into existing concrete elements.

Technical data

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| Colour: | Part A: transparent/amber Part B: brown |
| Mixing Ratio: | 1.7 : 1 (Part A:B by weight) |
| Mixed density: | 1.08 ± 0.05 g/cm ³ |
| Mixed Viscosity | 200 ± 40 mPa.s at +25°C |
| Pot life, minutes at 25°C. | 30 - 45 mins |

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|-----------------------------------|----------------------------|
| Processing Time at +25°C | 20 - 35 minutes |
| Processing Temperature | Between 12 - 40°C |
| End foaming time at +25°C | 10.0 ± 1.0 h |
| Adhesive strength (wet surface): | 2.1 ± 0.5 MPa after 12 hrs |
| Compressive strength (Restrained) | >60 MPa |
| Shore A Hardness | 60 - 70 |

Directions to use

Substrate preparation

Prior to the injection, the cracks to be worked on are sealed using either EPIFIX TX or EPISEAL EK3 repairing mortars. Along the course of the cracks, holes are drilled at a distance of 10 to 15 cm to each other on alternating sides of the crack. Packers are inserted into the injection holes and (if possible) injected proceeding from the bottom to the top. The diameter of the holes depends on the packers used.

Application

Component A and B are stirred separately under low speed mixer. Then Component B is added slowly into the Component A under low speed mixer and mixed together approximately 3-4 minutes till a homogenous mixture is obtained. **Polygrout GR 502** is injected using a mechanical pump under low pressure.

Remarks

- It may be harmful with skin contact.
- Do not apply in freezing conditions or during precipitation.
- Protect applied materials from rain, freezing, foot traffic and continuous high humidity until



completely dry.

- Do not use when air and surface temperatures are below +10°C and above +40°C.

Cleaning

Clean tools and equipment first with paper towels and then wipe by using Acetone, xylene or other suitable solvents.

Packaging

Polygrout GR 502 is available in 5kg Kit and 10kg Kit

Shelf life

12 months from production date if stored in original, unopened packaging, at temperatures between +5°C and +35°C. Protect from direct sunlight and frost.

Health & safety

Avoid direct contact with this product. Use of safety glasses, rubber gloves, and protective clothing is recommended. If contact occurs, wash affected areas with mild soap and water. Keep product out of reach of children.

Refer to Safety Data Sheet for complete health and safety information.

Notes

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