

MAK POLYGROUT 100

[One Component, Solvent Free, High Form Polyurethane Injection System]

Description :

Single component, solvent free, polyurethane injection system ideally suitable for crack injections, water leakages, void filling in and beyond concrete and masonry structures. Reaction with water yields a semi-flexible closed cell polyurethane foam. To be injected with a Single-component pump. Use with 5% to 10% catalyst.

Usage :

MAK POLYGROUT 100 is a high-efficient Single-component system for sealing water leakages with high water flows. The product can be used to fill voids in concrete, cavities in rocks and anchoring in gravel

Properties :

Reaction with water yields a semi-flexible polyurethane foam. The formation of CO₂ makes the resin penetrate very well into the cracks. The reaction speed can be adapted easily by varying the accelerator or catalyst content from 5% to 10%. The more catalyst is added, the faster the reaction velocity. The cured product neither shrinks nor swells. A good compression strength is obtained in a very short time. Foam expansion: 3000 to 4000%

Storage :

To avoid problems, it is very important to understand that these materials are both temperature and moisture sensitive. Therefore, materials should be stored in an area with temperatures not exceeding 30°C or not lower than 10°C. The maximum shelf life is 2 years. All partly used drums should be covered by nitrogen and resealed to prevent the ingress of moisture.

Application Instruction :

- Shake the catalyst well. Mix the resin and the accelerator in a ratio of 4% to 5% to arrest normal leakages. Between 6-10% in case of heavy leakages. The reaction time and rise of foam depends up on % of accelerator added. Higher the accelerator reaction time is faster. For injection: use packers and a 1 component pump (manual or automatic). Mak polygrout 100 is very hydrophobic and packed under dry atmosphere. Use opened containers as soon as possible or recap under dry nitrogen.
- Pumps should be cleaned with PyuClean, a cleaning product specially developed for cleaning of polyurethane injection pumps.

Technical Characteristic :

Physical characteristics of the uncured polyurethane prepolymer

Subject	Value	Norm
Solid Conten	100%	Solvent Free
Density	1.15 g/cm ³	EN ISO 2811-2:2002
Viscosity	150 mPa.s	EN ISO 3219:1994
Flash point	> 180 °C	
Colour	Yellowish Brown	

Physical characteristics of the catalyst

Subject	Value	Norm
Solid Conten	100%	Solvent Free
Density	0.94±0.03 g/cm ³	EN ISO 2811-2:2002
Viscosity	21 mPa.s	EN ISO 3219:1994
Flash point	> 180 °C	
Colour	Clear Liquid	

Packaging :

Resin – 10kg and 20kg metal drum
Catalyst – 1L and 2L bottle

Health and Safety :

In the event of spillage and accidents, please refer to product material safety data sheet or contact us for further clarifications.

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