BUILDING TRUST

PRODUCT DATA SHEET

SikaInject®-102

(formerly TPH.® PUR-O-STOP)

Polyurethane based injection resin for stopping of flowing water.

DESCRIPTION

SikaInject® 102 is a PU-based single-component, low viscosity, water-reactive injection resin. It cures to form a closed-cell, dense, but slightly flexible foam.

USES

SikaInject®-102 may only be used by experienced professionals.

- Stopping of high water intrusions in cracks, joints and cavities in concrete and masonry.
- Waterstopping in special applications such as pile walls, anchor heads and microtunneling.
- Ground and rock consolidation as well as numerous other waterproofing applications in civil engineering, tunneling and mining construction.

FEATURES

- Reacts with the water present in the injection area with strong foam formation.
- Foam factor up to 75 times (free expansion)
- Adjustable potlife; by adding up to 10% SikaInject® 102 Cat (formerly known as TPH PUR-O-STOP Catalyst) to the SikaInject® 102 PU-resin, the reaction can be accelerated (e.g. cold water)
- Can be injected by 1-C-pumps (pneumatic or electric)

CERTIFICATES AND TEST REPORTS

Groundwater-Test (P5.1/11 - 311, MFPA Leipzig)

PRODUCT INFORMATION

Composition	Water-reactive polyurethane resin
Packaging	SikaInject® 102 (Resin) 22 kg or 10 kg SikaInject® 102 Cat (Accelerator) 2.2 kg Refer to current price list for packaging variations
Colour	SikaInject® 102 (Resin): dark-brown, liquid SikaInject® 102 Cat (Accelerator): light-yellow, liquid
Shelf life	12 months from date of production
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperature between +15 °C and +25 °C
Density	SikaInject® 102 (Resin): ~1.14 kg/l (23° C, ISO 2811-1) SikaInject® 102 Cat (Accelerator): ~0.91 kg/l (23° C, ISO 2811-1)
Viscosity	SikaInject® 102 (Resin): ~230 mPas (23°C, ISO 2555) SikaInject® 102 Cat (Accelerator): ~15 mPas (23°C, ISO 2555)

APPLICATION INFORMATION

Mixing ratio	Adjustable - up to 10% of catalyst can be added The mixture of resin and accelerator lasts approx. 8 hours, where a skin can form on the surface (reaction with air humidity). Remove skin from surface; do not mix back into the liquid.
Ambient air temperature	+5 °C min. / +35 °C max.
Substrate temperature	+5 °C min. / +35 °C max.

Reaction time

SikaInject-102 /Cat			
Accelerator / Catalyst	0% Cat	5% Cat	10% Cat
Expansion Start	~20 s	~10 s	~7 s
Expansion End	~130 s	~45 s	~25 s
Free Foaming Factor	~55x	~65x	~75x
Foam Density	~23 kg/m3	~19 kg/m3	~16 kg/m3
Values with 10% water at 23° C			

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LIMITATIONS OF USE

To achieve permanent watertight crack- or joint-sealings inject with a permanent resin (e.g. SikaInject®-201 DE) after flow of water is stopped

ECOLOGY, HEALTH AND SAFETY

CLEANING OF EQUIPMENT

Use SikaInject® Cleaner C1 or SikaInject® CL2 for pump-cleaning (non-cured resin).
Cured material can only be removed mechanically.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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