

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/m ³	~19 kg/m ³	~16 kg/m ³
Values with 10% water at 23° C				

BASIS OF PRODUCT DATA

All technical data stated in this Product 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

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

LEGAL NOTES

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be

handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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