Technical Data Sheet
Issue: 01-02-2019

PUR-O-STOP SL

Properties:

PUR-O-STOP SL is a two-component injection resin based on polyurethane. *PUR-O-STOP SL* is used:

- for lifting of concrete slabs in road construction,
- for solidification of traffic areas,
- for filling of cavities and stabilization in building construction, tunneling, underground and canal construction.

PUR-O-STOP SL is fast reacting, slightly foaming and has only a very low volumetric expansion factor of 2 to 3 even when reacting with water in injection area.

Technical data:

Substance data of components:		
Component A		
Consistency	liquid	
Colour	colourless	
Odour	odourless	
Spec. density (23°C)	approx. 1.03 g/cm^3	DIN EN ISO 2811-1
Dyn. viscosity (23°C)	approx. 200 mPas	DIN EN ISO 2555
Component B		
Consistency	liquid	
Colour	brown	
Odour	characteristic	
Spec. density (23°C)	approx. 1.23 g/cm^3	DIN EN ISO 2811-1
Dyn. viscosity (23°C)	approx. 400 mPas	DIN EN ISO 2555
Mixture of A- and B-component:		
Processing temperature	5 - 40°C	substrate temperature
Mixing ratio A : B	1 : 1 (parts by volume)	
Reaction data (at 23°C):		
Cream time (start of foaming)	approx. 50 s	ASTM D7487
Free rise time (end of foaming)	approx. 80 s	ASTM D7487
Volumetric foaming factor	approx. 2-3	ASTM C1643
Properties of polyurethane resin:		
Compressive strength		DIN EN 12190
2 h	approx. 45 N/mm^2	
24 h	approx. 45 N/mm^2	
7 d	approx. 45 N/mm^2	

Processing:

Both components are taken directly from the original packaging by means of a 2K injection pump and mixed homogeneously in a static mixer.

Injection is done over packer or injection lances directly into the construction, soil, rock or under the traffic area.

Recommended injection pumps: *TPH INJECT PS 25-II*
TPH INJECT PS 5-II

Depending on product and ambient temperature a different viscosity and reaction time should be observed.

Viscosity depending on different temperatures:

Temperature [°C]	Dyn. viscosity Component A [mPas]	Dyn. viscosity Component B [mPas]
5	920	2380
10	460	1560
15	300	920
20	230	570
25	150	390
30	110	250

* Standard DIN EN ISO 2555

Reaction time depending on different temperatures:

Temperature [°C]	Cream time (Start of foaming) [min : s]	Free rise time (End of foaming) [min : s]
5	1 : 20	2 : 06
10	1 : 01	1 : 44
15	0 : 56	1 : 31
20	0 : 52	1 : 25
25	0 : 46	1 : 19
30	0 : 37	1 : 05

* Standard ASTM D7487

The foam resin formed by reaction of components penetrates the structures to be sealed. Cracks, fissures, cavities etc. will be bonded and stabilized. Due to resulting foaming pressure massive structures (e.g. concrete roadway slabs) can be lifted.

Safety information:

PUR-O-STOP SL component B contains isocyanates and is classified as hazardous according to Regulation (EC) 1272/2008 (CLP).

It is therefore necessary, before beginning processing, to become familiar with the precautions and safety advice as indicated in the material safety data sheet.

Packaging:

Component A	20 kg metal canister 1000 kg IBC
Component B	24 kg metal canister 1200 kg IBC

Storage:

Shelf life at least 12 month in original packaging when stored in dry conditions between 15-25°C, protected from heat, frost and direct sunlight.

After the expiration the use of the product is generally not recommended, unless an approval has been provided by TPH. This approval can only be obtained by the quality assurance department of TPH releasing the material after verification of main properties being within specification.

Disposal:

Small quantities of cured product residues can be disposed of as normal domestic waste. Dispose of not cured product components must be effected in accordance with the corresponding local regulations. For further information please refer to the material safety data sheets.

Test certificates:

Basic examination according to TL BEB-StB 15, table 27; MFPA Leipzig 2019

Legal notice:

The correct and thus successful application of our products is not subject to our control. A guarantee can be issued for the quality of our products within the framework of our sales and supply conditions, however not for successful processing. All data and specifications in this specification sheet are based on the present state of the art and the right to changes and adaptations for the sake of development remains explicitly reserved. The consumption specifications designated by us can be only average empirical values, where deviations are possible on an individual basis and therefore cannot be excluded by us.

TPH Bausysteme GmbH
Nordportbogen 8
D-22848 Norderstedt

Tel.: +49 (0)40 / 52 90 66 78-0
Fax: +49 (0)40 / 52 90 66 78-78
e-mail info@tph-bausysteme.com
Web www.tph-bausysteme.com

Waterproofing Systems