Technical Data Sheet
Issue: 16-11-2016

PUR-O-STOP FS-M

Properties:

PUR-O-STOP FS-M is a slow-hardening, rigid, two-component injection resin based on polyurethane for water proofing and stabilization of water bearing structures.

PUR-O-STOP FS-M is an injection resin with variable reaction time which can be adjusted by adding the catalyst (see pot-life table).

PUR-O-STOP FS-M penetrates well into structures to be sealed. Upcoming water gets mostly forced out due to the viscous and hydrophobic mixture. At borders of resin/water the mixture develops stable and solid foam.

Technical Data:

Substance data of components:		
Component A		
Consistency	liquid	
Colour	transparent yellowish	
Odour	hardy noticeable	
Spec. density (23°C)	approx. 1.03 g/cm^3	DIN EN ISO 2811-1
Dyn. viscosity (23°C)	approx. 190 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. 100 mPas	DIN EN ISO 2555
Mixture of A- and B-component:		
Processing temperature	5 - 30°C	substrate temperature
Mixing ratio A : B	1 : 1 (parts by volume)	
Viscosity of mixture (23°C)	approx. 140 mPas	DIN EN ISO 2555
Reaction data (without PUR-O-STOP FS-C at 23°C):		
String gel time (pot-life)	approx. 90 min	ASTM D7487
Volumetric expansion factor		ASTM C1643
without water	1	
in contact with water	approx. 1.5 - 3	
Final curing	approx. 24 h	
Properties after curing:		
Bending tensile strength	approx. 29 N/mm^2	DIN EN 12390-5
Compressive strength	approx. 74 N/mm^2	DIN EN 12390-3
E-modulus	approx. 2800 MPa	DIN EN ISO 527

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.

Indicated injection pumps:	*TPH INJECT PS 25-II* *TPH INJECT PS 5-II*
Indicated mixer:	static mixer 13-32

Due to the relatively long reaction time *PUR-O-STOP FS-M* may be alternatively processed by means of a 1K injection pump. Therefore mix components in a dry and clean container with the aid of a mixing device until reaching a homogeneous appearance (no streaks). Afterwards the mix is to be pumped.

Indicated injection pump: *CONTRACTOR 1U*

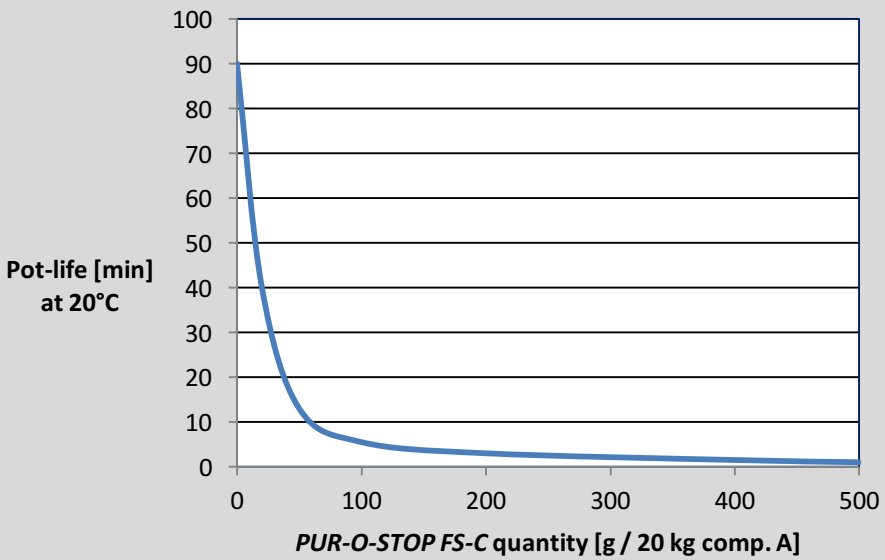
At contact with water the resin starts foaming and prevents the following resin to foam up. Therefore *PUR-O-STOP FS-M* can be processed in one step of work.

Variable reaction time can be adjusted by adding the catalyst *PUR-O-STOP FS-C* (C = catalyst) according to the application (see pot-life table).

Pot-life dependent on *PUR-O-STOP FS-C* quantity *:

Catalyst quantity	without	20 g	50 g	100 g	200 g	400 g	500 g
Pot-life [min:s]	90:00	40:00	12:50	5:24	2:43	1:21	0:58

Pot-life determined at 20°C without water contact; standard ASTM D7487
Catalyst quantities with reference to 20 kg component A



Safety information:

PUR-O-STOP FS-M 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
Component B	24 kg metal canister

Bigger packaging on request.

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.

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