

PUR-O-STOP FS

CE-marking in accordance with EN 1504-5



Properties:

PUR-O-STOP FS is a fast reacting, rigid, two-component injection resin based on polyurethane for water proofing and stabilisation of water bearing structures.

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

PUR-O-STOP FS 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.

PUR-O-STOP FS is used for stabilisation and solidification of water bearing rocks, ground, sand as well as for stopping in rushing water in tunnels, shafts, dams and other building structures made from concrete or brickwork and as a concrete injection product for force transmitting filling of cracks.

Technical Data:

Substance data of components:

Component A

Consistency	liquid	
Colour	transparent yellowish	
Odour	hardly noticeable	
Spec. density (23°C)	approx. 1.03 g/cm ³	DIN EN ISO 2811-1
Dyn. viscosity (23°C)	approx. 150 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. 120 mPas	DIN EN ISO 2555

Reaction data (without PUR-O-STOP FS-C at 23°C):

String gel time (pot-life)	approx. 5 min	ASTM D7487
Final curing	approx. 30 min	

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

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

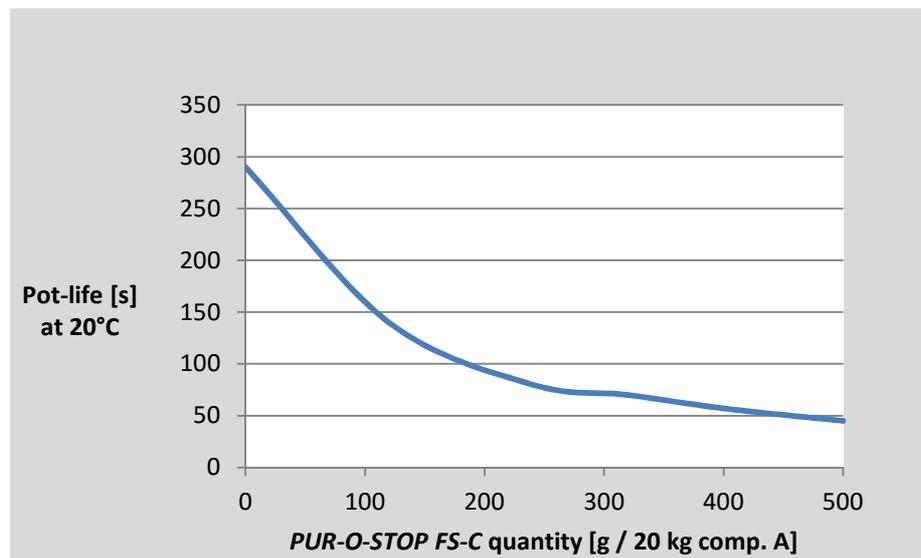
At contact with water the resin starts foaming and prevents the following resin to foam up. Therefore *PUR-O-STOP FS* can be processed in one step of work.

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	120 g	240 g	320 g	400 g	500 g
Pot-life [min:s]	4:50	2:20	1:20	1:10	0:57	0:45

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



With strong outflow of water or in case of cold water we recommend to use *PUR-O-STOP FS-F* (F = fast reaction time) or *PUR-O-STOP FS* combined with *PUR-O-STOP FS-TX* thixotropic agent.

With longer reaction times, as in the case of crack injection and ground stabilisation, we recommend the use of *PUR-O-STOP FS-L* (L = long reaction time).



TPH Bausysteme GmbH
Nordportbogen 8
D-22848 Norderstedt

12

GER0513/10

EN 1504-5:2004

Concrete injection product
EN 1504-5: U(F1) W(5)(1/2/3) (5/30)(0)

Adhesion by tensile bond strength	> 2 N/mm ²
Adhesion by slant shear strength	NPD
Volumetric shrinkage	< 3 %
Glass transition temperature	> 40°C
Injectability into dry medium	Injectability class: 0.5
Durability (compatibility with concrete)	cohesive failure in the substrate
Corrosion behavior	deemed to have no corrosive effect
Release of dangerous substances	NPD

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

TPH.
Waterproofing Systems

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