

PUR-O-STOP

Properties:

PUR-O-STOP is a single-component injection resin on polyurethane base, which is employed for stopping water ingress, for stopping flowing water in combination with acrylate gel grouting, for ground and rock hardening, as well as for numerous other sealing requirements in civil and mining engineering and in tunnel construction.

PUR-O-STOP reacts with the water present in the injection area with strong foam formation.

With the addition of up to 10% *PUR-O-STOP Catalyst* to the *PUR-O-STOP* polyurethane resin, the potlife can be reduced.

Technical Data:

Substance data of components:

PUR-O-STOP

Consistency	liquid	
Colour	dark brown	
Odour	characteristic	
Spec. density (23°C)	approx. 1.14 g/cm ³	DIN EN ISO 2811-1
Dyn. viscosity (23°C)	approx. 230 mPas	DIN EN ISO 2555

PUR-O-STOP Catalyst

Consistency	liquid	
Colour	light yellow	
Odour	similar to amine	
Spec. density (23°C)	approx. 0.91 g/cm ³	DIN EN ISO 2811-1
Dyn. viscosity (23°C)	approx. 10 - 20 mPas	DIN EN ISO 2555

Processing temperature 5 - 40°C substrate temperature

Reaction data (at 23°C):

	without Cat.	with 5 % Cat.	with 10 % Cat.	Test standard
Cream time (start of foaming)[min:s]	0 : 20	0 : 10	0 : 07	ASTM D7487
Free rise time (end of foaming) [min:s]	2 : 10	0 : 45	0 : 25	ASTM D7487
Volumetric expansion factor	54	64	75	ASTM C1643
Bulk density/Spec. Gravity [kg/m³]	23	19	16	DIN EN ISO 845

(Reaction data were determined with addition of 10 % water in mixture.)

Processing:

PUR-O-STOP is a single-component which is injected into the water-carrying areas with the aid of pneumatics, electrical or hand-operated 1 K pumps.

Indicated injection pump: *CONTRACTOR 1U*

To decrease the potlife, up to 10% of *PUR-O-STOP Catalyst* can be added to *PUR-O-STOP*.

The mixture of *PUR-O-STOP* and *PUR-O-STOP Catalyst* lasts approx. 8 hours, where a skin can form on the liquid surface through reaction with water, however which does not influence the processing of the material.

For cleaning of pump and injection devices we recommend the use of *PUR-O-CLEAN* (see specific TDS).

Safety information:

PUR-O-STOP contains isocyanates and additives and is classified as hazardous according to Regulation (EC) 1272/2008 (CLP).
PUR-O-STOP Catalyst contains amines. The product is also 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:

<i>PUR-O-STOP</i>	22 kg metal canister 10 kg metal canister 1 kg tin can
<i>PUR-O-STOP Catalyst</i>	4.5 kg metal canister
Combined packaging	1.1 kg combined can

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.

Test certificates:

Examination of the leaching behaviour with reversed flow direction of the one component injection resin based on polyurethane *PUR-O-STOP* (column trial referring to DIBt Guideline "Assessments of the effects of construction products on soil and ground water"; MFPA Leipzig 2011

Examination according to TrinkwV 2012 and Coatings Guideline; görtler analytical services gmbH Vaterstetten 2019

PUR-O-STOP with *PUR-O-STOP catalyst* - Investigation of the elution behavior of a polyurethane-based injection resin; MFPA Leipzig 2021



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.

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