TPH.

PUR-O-STOP FLEX

CE-marking in accordance with EN 1504-5

CE
TPH Bausysteme GmbH
D-22848 Norderstedt
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GER0513/04
EN 1504-5:2004
Essential characteristics:
See declaration of performance

Properties:

PUR-O-STOP FLEX is a fast-reacting, single-component polyurethane-based injection resin, ideal for stopping water penetration and as a concrete injection product for ductile filling of wet and water flowing cracks in concrete structures in building, civil engineering and tunnel construction according to EN 1505-5.

PUR-O-STOP FLEX reacts to existing water in the area of injection with a intensive production of foam. The resulting foam has a closed cell structure, is highly flexible and extremely tear resistant.

Technical Data:

Substance data:

Consistency	liquid	
Colour	transparent reddish	
Odour	characteristic	
Spec. density (23°C)	approx. 1.1 g/cm^3	DIN EN ISO 2811-1
Dyn. viscosity (23°C)	approx. 300 mPas	DIN EN ISO 2555
Processing temperature	5 - 40°C	substrate temperature

Reaction data (at 21°C):

Cream time (start of foaming)	approx. 20 s	ASTM D7487
Free rise time (end of foaming)	approx. 2 min	ASTM D7487
Volumetric expansion factor	approx. 29	ASTM C1643
Bulk density / Spec. gravity	approx. 48 kg/m^3	DIN EN ISO 845

(Reaction data were determined with addition of 5 % water in mixture.)

Processing:

PUR-O-STOP FLEX 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*

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

Safety information:

PUR-O-STOP FLEX contains isocyanates and additives 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:

21 kg metal canister
10 kg metal canister
1 kg tin 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:

Concrete injection product based on polyurethane for ductile filling of cracks according to EN 1504-5

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Conrete injection product
EN 1504-5: U(D1) W(5)(3/4) (5/40)

Adhesion and elongation capacity	> 10 %
Watertightness	D1
Glass transition temperature	< - 30°C
Injectability into non dry medium	Injectability class: 0.5
Durability (compatibilty with concrete)	No failure by compressive testing Lost deformation work < 20 %
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.