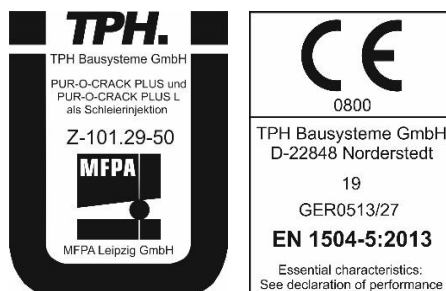


## PUR-O-CRACK PLUS

General Building Inspectorate Approval for curtain grouting  
CE-marking in accordance with EN 1504-5



### Properties:

*PUR-O-CRACK PLUS* is a two-component, slow reacting, highly elastic injection resin based on polyurethane for water proofing and stabilization of water bearing structures with pressing water and non-pressing water.

*PUR-O-CRACK PLUS* is used for stabilization and solidification of water bearing rocks, ground, sand, for injection of brickwork as well as a concrete injection product for ductile filling of cracks according to EN 1504-5.

*PUR-O-CRACK PLUS* has a German General Building Inspectorate Approval as an injection product for curtain grouting.

### Technical data:

#### Substance data of components:

##### Component A

Consistency	liquid	
Colour	transparent yellowish	
Odour	hardly noticeable	
Spec. density (23°C)	approx. 1.01 g/cm <sup>3</sup>	DIN EN ISO 2811-1
Dyn. viscosity (23°C)	approx. 115 mPas	DIN EN ISO 2555

##### Component B

Consistency	liquid	
Colour	brown	
Odour	characteristic	
Spec. density (23°C)	approx. 1.21 g/cm <sup>3</sup>	DIN EN ISO 2811-1
Dyn. viscosity (23°C)	approx. 40 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. 61 mPas	DIN EN ISO 2555

#### Reaction data (at 23°C):

Pot-life (String gel time)	approx. 40 min	ASTM D7487
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#### Properties after curing:

E-modulus	approx. 0.25 MPa	DIN EN ISO 527
Tensile strength	approx. 0.60 MPa	DIN EN ISO 527
Elongation at break	approx. 220 %	DIN EN ISO 527
Shore A hardness	approx. 10	DIN ISO 7619-1

## 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*  
*TPH INJECT EL 5 II*

Indicated mixer: static mixer 13-32  
 inline static mixer, plastic Ø 9.4 mm  
 art.no. 333902

Shorter reaction times can be adjusted by adding the *PUR-O-STOP FS-C* catalyst to component A (see pot-life table).

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

Quantity of FS-C [g]	Pot-life [min : s]
20	28 : 18
40	15 : 32
60	10 : 46
80	08 : 53
100	07 : 35
120	06 : 12
140	05 : 01
160	04 : 08
180	03 : 52
200	03 : 44
220	03 : 40
240	03 : 38
260	03 : 24

\* Pot-life determined at 23°C without water contact; standard ASTM D7487  
 Catalyst quantities with reference to 20 kg component A

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

*PUR-O-CRACK PLUS*, *PUR-O-CRACK PLUS L* and *PUR-O-CRACK PLUS F* injection resins can be combined with each other. The component B of these products is identical.

For one-component application we recommend to use *PUR-O-CRACK PLUS L* due to its slow reaction time.

## Safety information:

*PUR-O-CRACK PLUS* 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:**

<i>PUR-O-CRACK PLUS</i>	
Component A	20 kg metal canister 10 kg metal canister 5 kg metal canister
<i>PUR-O-CRACK PLUS</i>	
Component B	24 kg metal canister 12 kg metal canister 6 kg metal canister
Combined packaging	1500 ml double cartridge incl. mixer
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:**

*PUR-O-CRACK PLUS*, *PUR-O-CRACK PLUS-L*, *PUR-O-CRACK PLUS-F* - Examination of the leaching behaviour of an injection system based on polyurethane; MFPA Leipzig 2018

Test of the effect of *HYDROPOX EP1*, *RUBBERTITE*, *RUBBERTITE + POLINIT*, *PUR-O-CRACK*, *PUR-O-CRACK PLUS* and *PUR-O-STOP FS-L* injection products on elastomers in concrete according to DIN EN 12637-3; MFPA Leipzig 2018

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

Determination of the identification properties and performances of crack injection product *PUR-O-CRACK PLUS* / *PUR-O-CRACK PLUS L* according to EN 1504-5; MFPA Leipzig 2019

*PUR-O-CRACK PLUS* and *PUR-O-CRACK PLUS L* - Examination of the leaching behaviour of the injection products based on polyurethane resins; MFPA Leipzig 2019

General Building Inspectorate Approval "*PUR-O-CRACK PLUS* and *PUR-O-CRACK PLUS L* for curtain grouting"; DIBt Berlin 2020

*PUR-O-CRACK PLUS* - Détermination de la résistance à l'eau; MFPA Leipzig 2020



**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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**TPH.**  
*Waterproofing Systems*