

PUR-O-STOP HF

Properties:

PUR-O-STOP HF is a 2K injection resin based on Polyurethane, which is used for:

- backfilling of pockets and gaps respectively for stabilization in building construction, tunneling, civil engineering and underground work,
- Filling of big joints and at the same time stabilization of dry und wet gravel aggregate beds,
- sealing of breakouts respectively pipe routs and cable channels and
- stopping of water breakthroughs in case of cracks, working joints as well as prefabricated concrete parts.

PUR-O-STOP HF is a fast reacting resin with rapid tendency to foam development, which creates after reaction a press water tight sealing. It becomes solid and in the time elastic with heat-insulating ability.

Technical Data:

Substance data of components:

Component A

Consistency	liquid	
Colour	colourless	
Odour	odourless	
Spec. density (23°C)	approx. 1.05 g/cm ³	DIN EN ISO 2811-1
Dyn. viscosity (23°C)	approx. 240 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. 240 mPas	DIN EN ISO 2555

Mixture of A- and B-component:

Processing temperature	5 - 40°C	substrate temperature
Mixing ratio A : B	1 : 1 (parts by volume)	

Reaction data (at 23°C):

Cream time (start of foaming)	approx. 20 s	ASTM D7487
Free rise time (end of foaming)	approx. 45 s	ASTM D7487

Properties after curing:

Volumetric expansion factor	approx. 13-15	ASTM C1643
Bulk density / Spec. gravity	approx. 71 kg/m ³	DIN EN ISO 845
Compressive strength	approx. 2.0 N/mm ²	DIN EN 12190

Processing:

PUR-O-STOP HF is processed by means of manual or pneumatic 2K cartridge pump and applied directly into the gap or part to be sealed.

Joints and cracks should be bored with a 16mm bore channel. The static mixer is placed directly into the channel in order to avoid loss of material and bring the resin directly into the water bearing parts.

Open packaging should be used and finished immediately.

In case of rapid water break through it is recommended to lock up the gaps first with quick cement, like quick cement *F30*. The materials foam ability is depended on the quantity of water it gets in touch with.

In case of procession of metal cans 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
MAN-2000 (for double cartridges)
PN-2000 (for double cartridges)

The foam resin formed by reaction of components penetrates the structures to be sealed. Cracks, fissures, cavities etc. will be bonded and stabilized.

Safety information:

PUR-O-STOP HF 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	19 kg metal canister
Component B	22 kg metal canister
Combined packaging	395 ml 2K 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:

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

**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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