

Technical Data Sheet

PT PUR-Injection-Resin 400

**- PUR injection resin -
(hard, structural sealing, solidification, low viscosity)**

Product description

PT PUR-Injection-Resin 400 is a two component (component A+B), phthalate-free, very low viscous and hard (structural) polyurethane injection resin. Due to the very low viscosity it has a very deep penetration into fine structures of the building and leads to a solidification of the injected area (masonry or concrete). The resin has a limited volume expansion in contact with water / humidity. PT PUR-Injection-Resin 400 is not used against flowing water.

Application areas

PT PUR-Injection-Resin 400 is used for solidification of brick walls and additionally for filling of cavities and stabilization in soils. Typical applications are tunneling, mining and civil engineering.

Product advantages

- **Used as an one component system**
 - **Two components (A + B)**
 - **For structural repair, hard resin**
 - **Very low viscosity**
 - **Phthalate-free**
 - **Form stable**
 - **Very good adhesion to the surface**
 - **Excellent penetration properties**
 - **Mixing ratio 1:1 by weight**
 - **Alkaline stable**
 - **Does not attack reinforcement steel**
 - **Application with 1C equipment/machinery**
 - **„Made in Germany“**
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Specification

Base	: Polyurethane
Color	
Component A	: transparent
Component B	: dark brown
Mixing ratio	: 1 : 1 by weight parts
Working temperature	: from + 5°C up to + 35°C
Density	: approx. 1.07 g/ml (DIN 53 479)

Viscosity (Brookfield)	: approx. 160 mPas (+25°C) (EN ISO 3219)
Pot life	: approx. 30 minutes (1 liter at +23°C)
Consumption	: depend of cavity occurrence

All technical datas are measured in our laboraty.

Please take notice about the safety information and advice given on the safety data sheets and packaging labels. GISCODE: PU40

Delivery form

25 kg metal buckets Article-No. 01400025
(A-comp. 12,5 kg metal bucket + B-comp. 12,5 kg metal bucket)

400 kg metal drum Article-No. 01400400
(A-comp. 200 kg metal drum + B-comp. 200 kg metal drum)

Storage

6 months (frost-free and dry, +5°C up to +25°C in original packaging).

Application

Surface preparation

Before starting injection procedure, an analysis of the to be waterproofed subject is required. On hand of analysis results (water situation, crack properties, crack width, cavity occurrence, water temperature etc.) choose the right injection material. For building solidification PT Plastic-Injection-Packers L must be installed horizontal into the substrate. The diameter of boreholes depends on the diameter of the used injection packers (For example: 12 mm packer diameter = 12 mm borehole diameter). The packers must be set tightened by using the right tools, so they do not release even at high injection pressures.

Material

PT PUR-Injection-Resin 400 will be injected through 1K-injection devices (please send inquiry). The material (components A + B) should be mixed in the predetermined mixing ratio and is filled in injection device (material hopper) afterwards. The injection proceeds with an initial pressure of 3 bar in masonry. Depending on site situation, the injection pressure can rise.

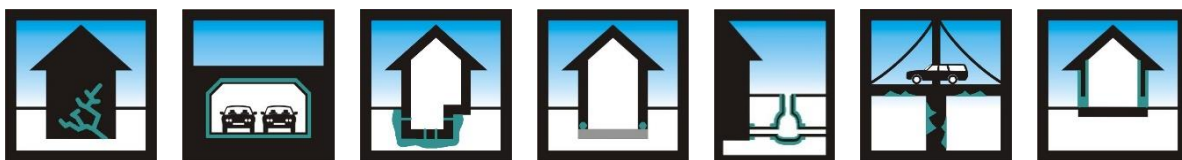
The ready mixed material should be injected within the specified processing time / pot life. PT PUR-Injection-Resin 400 has to be injected as long as the cavities of wall are filled with resin. Change to the next installed packer after the injection material came out of the next packer, can be observed on the surface or out of the joint. Changes in temperatures can change the reaction characteristics of the material. We recommend a subsequent injection within the processing time / pot life through the same injection packer.

After complete curing (reaction) of PT PUR-Injection-Resin 400 the boreholes must be sealed with PT Waterstop Mortar or PT Swelling Mortar. Depend on cavity occurrence the mentioned material consumption can change. Changes in temperatures changing the reaction properties of material.

Tools and equipment should be cleaned immediately after use with PT Cleaner PUR. Cured material can only be removed mechanically.

Recommended tools

1-K injection device, gloves, safety glasses
PT Injection Packer
PT One-Day-Packers
PT Waterstop-Mortar
PT Swelling Mortar
PT Cleaner PUR

Application areas:**Remarks**

The information given in this technical data sheet corresponds to the current state of development and is based on our experience, our knowledge and is non-binding. An investigation has to be done with focus on the respective building project and the area of application. The technical expert advice of proof-tec employees does not exclude the planning or control by an engineer. We are liable within the scope of our general delivery and sales conditions, we are not liable for the application of our materials. The generally accepted rules of technology must be observed. If necessary, preliminary tests have to be carried out.

Version 02/2017

All previous versions of this technical data sheet are not valid anymore and should not be used anymore.