

PT SPUR-Injection-Foam 100

**- SPUR-Injection Foam -
(water stopper, high reactive, fast foaming, 30 times volume expansion)**

Product description

PT SPUR-Injection-Foam 100 is a two component (resin + catalyst), phthalate-free, water stopping and fast foaming resin, which is used as a water stopper against flowing water. The component B serves as a catalyst and it adjust the reaction time. Lower dosage leads to a prolongation of the reaction time. In contact with water PT SPUR-Injection-Foam 100 reacts very fast to a foam with closed cellular pores and shape-retaining hard flexible PU-foam. After curing the material does not shrink.

Application areas

PT SPUR-Injection-Foam 100 is used as a fast water stop system, in water bearing (flowing water) cracks, crevices in construction above and below ground level. Typical applications are tunneling, steel piling, mining and civil engineering. It is used as a one component system.

Product advantages

- **Used as an one component system**
- **Two components (resin + catalyst)**
- **Reaction time adjustable**
- **Volume expansion up to 30 times in case of free foaming**
- **Hard elastic**
- **Closed cellular pores**
- **Phtalate-free**
- **Very fast foaming**
- **Reacts with water**
- **Shape retaining, no shrinking after curing**
- **Low viscosity**
- **Processing with 1K injection devices**
- **„Made in Germany“**

Specification

Base	: Polyurethane (isocyanat and catalyst)
Color	
Component A	: brown
Component B	: transparent
Mixing ratio	: 10 : 1 by weight parts
Working temperature	: from + 5°C up to + 35°C
Density	: approx. 1.15 g/ml (DIN 53 479)

Viscosity (Brookfield) : approx. 135 mPas (+25°C) (EN ISO 3219)
Reaction time, water temperature 15°C : approx. 11 seconds with mixing ratio 10 : 1
adjustable with B-component (catalyst)
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

1,1 kg metal canister (A-comp. 1 kg metal canister + B-comp. 0,1 kg (catalyst) metal tin	Article-No. 01100001
5,5 kg metal canister (A-comp. 5 kg metal canister + B-comp. 0,5 kg (catalyst) metal tin	Article-No. 01100005
11 kg metal canister (A-comp. 10 kg metal canister + B-comp. 1 kg (catalyst) metal tin	Article-No. 01100011
220 kg metal drum (A-comp. 200 kg metal drum + B-comp. 20 kg (catalyst) metal canister	Article-No. 01100220

Storage

12 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 crack and concrete joint PT Injection Packers must be installed in a 45° direction to the crack or concrete joint. The diameter of boreholes depends on the diameter of the used injection packers (For example: 13 mm packer diameter = 14 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 SPUR-Injection-Foam 100 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. With B-component the reaction time can be adjusted. The injection proceeds with an initial pressure of 15 bar for concrete and 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 SPUR-Injection-Foam 100 has to be injected as long as the water leakage is stopped and no flowing water is observed. Depend on cavity occurrence it can take seconds or minutes. Change to the next installed packer after the injection material came out of the next packer, of the crack 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.

For elastic / flexible crack and concrete joint sealing we recommend a subsequent injection with PT PUR-Injection-Resin 200 or PT PUR-Combi-Injection-Resin-DUO 600.

For structural crack and concrete joint sealing we recommend a subsequent injection with PT PUR-Injection-Resin-300.

After complete curing (reaction) of PT SPUR-Injection-Foam 100 the boreholes are 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 PUR-Injection-Resin 200
PT PUR-Combi-Injection-Resin-DUO 600
PT PUR-Injection-Resin 300
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 04/2021

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