

# Technical Data Sheet

## PT Hydro Swelling Rubber

**- rubber tape for waterproofing of joints –  
(highly flexible, reliable, high contact pressure)**

### Product description

PT Hydro Swelling Rubber is a watertight joint profile with a swelling volume of more than 600% in contact with water. The PT Hydro Swelling Rubber profile is manufactured by extrusion of rubber. The rubber consists out of butyl rubber, water swelling resins and special additives.

### Application areas

PT Hydro Swelling Rubber used for joint sealing in tunneling construction (segments, tubbings, TBM-tunnels). Additional area of application is in expansion joint, for example in underground car parks. The joint will be sealed due to the swelling pressure of the tape. The joint width can be variable. Unevenness and roughness can be compensated by the PT Hydro Swelling Rubber profile. The swelling process of tape is reversible.

### Product advantages

- **Swelling property > 300 %**
- **Different dimensions available (round, rectangle, others)**
- **Based on a special rubber mixture**
- **Suitable in humid/wet joints**
- **Absolutely watertight (up to 5 bar)**
- **Highly flexible**
- **Resistant against chemicals (list on demand)**
- **Form stable**
- **Retard swelling property**
- **Absorb high building movements**
- **Swelling process is reversible**

### Specification

Form	: Rectangle
Color	: blue
Dimension	: 5 x 20 mm round, other dimensions on demand.
Elongation at break	: > 280 %
Swelling property	: > 300 %
Watertightness	: 6 bar (according DIN EN 12390-8, Positive side water pressure)
Concrete coverage	: min. 8 cm
Processing temperature	: from 0°C up to +70°C

All technical datas are measured in our laboratory.

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

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### Delivery form

5 x 20 mm      roll á 50 m      (carton content = 5 rolls)  
Other dimensions on demand.

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### Storage

3 years (cool, dry conditions and protected from sunlight in original packaging, +5 °C up to + 25°C)

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### Application

#### Surface preparation

The joint (expansion joint, construction joint, etc.) must be cleaned thoroughly, even by brush or with air pressure. Remove all separating material (dust, stones, cement paste etc.) out of the joint.

#### Material

The PT Hydro Swelling Rubber will be installed in the joint with a concrete covering of at least 8 cm. If application is in joints of concrete segments/elements the PT Tape Adhesive is used for bonding.

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### Recommended tools

Gloves, Safety Glasses, Brush

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### 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.

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