

PC[®] ELASTOSWELL

Hydrophilic swell strip

1. Composition

PC[®] Elastoswell is a hydrophilic swell strip consisting of an acrylate based polymer swelling substance embedded in a butylene copolymer based thermoplastic elastomer.



2. Application

PC[®] Elastoswell is used for:

- waterproofing casting and header joints in concrete.
- waterproofing pipe lead-throughs.
- waterproofing joints between prefab concrete elements.
- waterproofing around all sorts of lead-throughs and construction joints (stationary joints).
- waterproofing connecting joints.

3. Properties

- Colour: white.
- Density (23° C): 1,256 g/cm³.
- Shore A: 26.
- Melting point: 110 °C.
- Tensile strength, unswollen state (EN ISO 527): ± 0,7 MPa.
- Elongation at rupture, unswollen state (EN ISO 527): ± 300%.
- **PC[®] Elastoswell** keeps its shape completely without splitting or cracking, even at maximum swelling. In addition, the elastomeric properties are maintained in this maximum swelling state.
- Contains no traces of bentonite.
- Resistant to permanent water pressure of 2 bar (20m water column).*
- Excellent re-swelling performance in wet-dry cycles.*
- Very good swelling capacities in highly alkaline environments.*
- When swelling is prevented, a swelling pressure up to 2,8 N/mm² (28 bar or 280m water column) is being generated.*

* AbP (Allgemeines bauaufsichtliches Prüfzeugnis), executed by the independent testing institute MFPA Leipzig, is available on demand.

4. Types and characteristics

Standard dimensions: 20 x 5 mm or 20 x 10 mm.

PC[®] Elastoswell swelling profiles can be manufactured in widely varied dimensions and shapes on request. Contact your Tradecc representative for more information.

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The volumetric %-swelling of the profile with a 20 * 5 mm and 20 mm * 10 mm cross-section in both tap water and demineralised water is summarised below.

- Maximum swelling 20mm * 5mm in tap water: ±1100%
- Maximum swelling 20mm * 5mm in demineralised water: ±1350%
- Maximum swelling 20mm * 10mm in tap water: ±900%
- Maximum swelling 20mm * 10mm in demineralised water: ±1000%

5. Packaging

- **PC® Elastoswell** (20 x 5 mm):
 - 9 rolls of 20m per box (180m/box),
30 boxes (5400m) per euro pallet.
- **PC® Elastoswell** (20 x 10 mm):
 - 9 rolls of 10m per box (90m/box),
30 boxes (2700m) per euro pallet.

6. Application advice

PC® Elastoswell is applied to the middle of the construction joint. It is advisable to allow at least 8 cm of concrete on both sides of the expanding sealant to prevent cracks in the concrete.

The joint sealant should be applied on a dry and smooth surface. When needed, the construction joint should be additionally smoothed out with swelling sealant. Fixation on the concrete surface can be done using adhesive and/or nails every 20 to 25 cm.

The ends of the swell strips should be placed head-to-head against each other or with an overlap of 10 cm. Placement in the middle of the construction joint is recommended (between the inner and outer reinforcement).

PC® Elastoswell can be used in combination with PC® Injectra.

Do not use **PC® Elastoswell** in expansion joints.

7. Shelf life

2 years if in original packaging, dry and frost-free.