

TECHNICAL DATA SHEET

A hydrophilic swell strip based on synthetic rubber with excellent swelling capabilities. Retains its own shape after multiple dry-wet cycles.

Designed for water sealing of construction joints.

I. Applications

TEKINJECT POLYSWELL is hydrophilic waterstop that acts like a watertight sealing for construction joints. Its excellent swelling capabilities and retention of its own shape after multiple dry-wet cycles, make it suitable for sealing of

- Construction joints in concrete and reinforced concrete construction. TEKINJECT POLYSWELL seals against non-pressing and pressing ground water up to 6 bar.
- Joints between prefab concrete elements.
- All sorts of lead-throughs

TEKINJECT POLYSWELL can be applied both vertically and horizontally but cannot be used for the sealing of expansion joints.

II. Properties

- 500% free volume expansion in expansion in rain water
- TEKINJECT POLYSWELL keeps its shape completely without splitting or cracking, even at maximum swelling. In addition, the elastomeric properties are maintained in this maximum swelling state.
- Resistant to permanent water pressure of 6 bar (60m water column).*
- Excellent re-swelling performance in wet-dry cycles.*
- Very good swelling capacities in highly alkaline environments.*
- Good chemical resistance
- The product remains consistent in its performance throughout its life cycle and the flexibility allows it to fill voids and cracks in the immediate surrounding area.

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

III. Technical Data

- Typical values:

Color	Yellow
Volume expansion in rain water	500%
Volume expansion in concrete water	400%
Storage temperature	Between -25 °C and 75 °C
Hardness	35° Shore A
Tensile strength	>2 MPa
Elongation	>400%

- Standard dimensions:

TEKINJECT POLYSWELL is standard available in: 20 x 5 mm or 20 x 10 mm.
Other dimensions are available on request.

IV. Processing

TEKINJECT POLYSWELL need to be applied on a dry and smooth surface. In case the surface is very un-levelled or wet, the construction joint should be additionally smoothed out with swelling sealant.

Place the TEKINJECT POLYSWELL in the middle of the construction joint (between the inner and outer reinforcement). It is advisable to allow at least 8 cm of concrete on both sides of the expanding sealant to prevent cracking of the concrete.

Fixation of the TEKINJECT POLYSWELL on the concrete surface can be done using adhesive and/or nails every 20 to 25 cm. The ends of the swell strip should be placed head-to-head against each other or with an overlap of 10 cm.

For more details see the application manual of the TEKINJECT POLYSWELL.

V. Packaging

TEKINJECT POLYSWELL 20x10:	Roll 10m 7 x 10m per carton box 30 boxes per pallet (2.100m per pallet)
TEKINJECT POLYSWELL 20x5:	Roll 10m 14 x 10m per carton box 30 boxes per pallet (4.200m per pallet)

VI. Shelf life

24 months after production date in the original, unopened and undamaged packaging, according to the storage instructions of each component (see technical data of this sheet). If the following recommendations are not followed, the shelf life of the material cannot be guaranteed. Certainly needs to be stored in a dry place.

VII. Company Details

TEKINJECT BV
Kruisblok 6
2320 HOOGSTRATEN
Belgium

www.tekinject.com
info@tekinject.com