



### Description

İzoswell is a hydrophilic swell strip consisting of an acrylate based polymer swelling substance embedded in a butylene copolymer based thermoplastic elastomer.

### Fields of Application

- Around all sorts of lead-throughs and construction joints (stationary joints).
- Foundations and basement walls.
- Water and drinking water tanks.
- Swimming pools.
- Waterproofing joints between precast concrete elements.
- Used in steel and concrete pipes.

### Properties

- Easy to apply.
- Swells in contact with tap water by up to 600% after 2 weeks.
- Excellent re-swelling performance in wet-dry cycles.
- Resistant to contact with groundwater, tap water, salt water, pure water and alkaline water.
- Keeps its shape even at high temperatures.
- It provides easy application in reinforced concrete thanks to its widely varied dimensions and shapes.
- Very good swelling capacities in highly alkaline environments.

### Preparation of Substrates

- The substrates should be dry, clean and solid, and should not apply on wet and frozen surfaces.
- Structural repair mortars Tamirart 40 or Tamirart S40 should be used in case of any loose and uneven substrates to get a sound and flat surface.

### Application

- İzoswell is applied in the middle of the construction joint.
- It is advisable to allow at least 8 cm of concrete on both sides of the swelling tape to prevent cracks in the concrete.
- The ends of the swell strips should be placed head-to-head against each other or with an overlap of 10 cm.

### Post-Application Protection & Suggestions

- It must be checked and made sure that swelling tape is not damaged before placing concrete.
- Swelling tape should not contact with water until placing the concrete.
- İzoswell should not be used in expansion joints.
- Already expanded tapes are not suitable for application.

### Storage

- 2 years in its original packaging under dry and frost-free conditions.

### Packaging

- İzoswell (20x5 mm) :  
9 rolls of 20 m per box (180 m / box)  
30 boxes (5400 m) per euro pallet
- İzoswell (20x10 mm) :  
10 m / rolls  
9 rolls of 10 m per box (90 m / box)  
30 boxes (2700 m) per euro pallet

“İzoswell swelling strips can be manufactured in widely varied dimensions and shapes on request. Contact Kalekim via [info@kalekim.com](mailto:info@kalekim.com) for more information.”



3503 İzoswell

**Technical Properties**

(at 23°C and 50% RH)

**General Data**

Appearance	White strip
Density	1.256 ± 0.08 g/cm <sup>3</sup>
Shore A	26 ± 2
Dimensions	20 x 5 mm 20 x 10 mm

**Performance Data**

Volumetric % swelling (14 days later)	
<b>Demineralsed water</b>	
20x5 mm	1200% ± 100
20x10 mm	700% ± 100
<b>Tap water</b>	
20x5 mm	1000% ± 100
20x10 mm	600% ± 100
Melting point	110 °C
Tensile strength (unswollen state) (EN ISO 527)	≥ 0.3 MPa
Elongation at rupture (unswollen state) (EN ISO 527)	≥ 300%
Resistant to permanent water	2 bar (20 m)
Bursting pressure	2.8 N/mm <sup>2</sup>



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