



## Hydrophilic Swell Strip

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

### Typical Uses

As an internal lining for concrete or steel storage tanks; chemical bunds, and for all types of jointing.

## Application

Aquabar is used for:

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

### Properties

- Colour: white.
- Density (23° C): 1,256 g/cm<sup>3</sup>.
- Shore A: 26.
- Melting point: 110 °C.
- Tensile strength, unswollen state (EN ISO 527):  $\pm 0,7$  MPa.
- Elongation at rupture, unswollen state (EN ISO 527):  $\pm 300\%$ .
- Aquabar 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/mm<sup>2</sup> (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.

### Characteristics

Standard dimensions: 20 x 10 mm.

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

- Maximum swelling 20mm \* 10mm in tap water:  $\pm 900\%$
- Maximum swelling 20mm \* 10mm in demineralised water:  $\pm 1000\%$

Aquabar 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).

Aquabar can be used in combination with Aquabar Mastic

Do not use Aquabar in expansion joints.

## Packaging

- Aquabar (20 x 10 mm): 9 rolls of 10m per box (90m/box), 30 boxes (2700m) per euro pallet

## Storage

Store in a cool and dry location. Do NOT allow Aquabar to become wet while in storage

## Shelf Life

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

## Specification

Aquabar is supplied by Adomast Manufacturing Ltd and shall be applied strictly in accordance with the manufacturer's instructions. For specific advice regarding any aspect of this product, please consult our Technical Department