Hydrotite POLYBAR
Polymer Based Hydrophilic Waterstop - Saline Grade
Superswell 20mm x 5mm

Technical Data Sheet (TDS)

Hydrophilic waterstop based on synthetic rubber that acts as a watertight sealing for construction joints with excellent swelling capabilities. Hydrotite POLYBAR superswell is developed for fast and efficient sealing in contact with extremely high concentrates of salt (up to 10w% salt water). Retains its own shape after multiple dry-wet cycles. Mechanical fixation is recommended with fixing glue for water swellable sealing profiles. Alternatively, Hydrotite POLYBAR can be fixed by nailing.

**TYPICAL USES**

- Designed for the easily applied sealing of construction joints in concrete and reinforced concrete construction. Hydrotite POLYBAR superswell seals against non-pressing and pressing ground water up to 6 bar. Hydrotite POLYBAR can be used in repeated wet and dry cycles.
- Hydrotite POLYBAR is developed for fast sealing in contact with extremely high concentrates of salt (up to 10w%).
- The sealing bars should in all instances be square butted and tight to ensure a continuous section with a minimum of 80mm concrete cover.
- Hydrotite POLYBAR can be applied both vertically and horizontally but under no circumstances should it be used in expansion joints.
- Hydrotite POLYBAR is a very effective waterstop seal in the following situations:
  - Construction joint
  - Pipe and cable penetrations
  - New to existing concrete
  - Sealing irregular concrete surfaces

**DESCRIPTION**

- Swellable water stop based on synthetic rubber that acts as a watertight sealing for construction joints with excellent swelling capabilities. Hydrotite POLYBAR retains its own shape after multiple wet and dry cycles.
- Hydrotite POLYBAR has a good resistance to a wide range of chemicals. Final confirmation about compatibility under specific conditions can be obtained from our technical dept.
- 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.

**APPLICATION**

- Mechanical fixation is recommended with Pacific fixing glue. Alternatively, the Hydrotite POLYBAR sealing bar is fixed by nailing at approx. 300mm centres.
- The product can be adhered to concrete, steel and PVC pipe penetrations with Pacific fixing glue.
- The use of a tying wire around Hydrotite POLYBAR in the case of securing it to PVC pipes is also recommended in conjunction with the adhesive.
- ** Typical areas of application include:**
  - Below and above grade structures such as water tanks, waste water treatment plants, tunnels, basements, lift shafts, underground stations, subway systems, manholes, culverts, reservoirs, potable water treatment plants, swimming pools, canals etc.

**ADVANTAGES:**

- Quick and easy to install - does not require special intersections, on-site welding or jointing.
- Suitable for ground/saline water conditions.
- Good chemical resistance.
**TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
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<tbody>
<tr>
<td>Volume expansion in rain water</td>
<td>3500%</td>
</tr>
<tr>
<td>Volume expansion in concrete water</td>
<td>900%</td>
</tr>
<tr>
<td>Volume expansion in 3w% salt water</td>
<td>400%</td>
</tr>
<tr>
<td>Volume expansion in 10w% salt water</td>
<td>300%</td>
</tr>
<tr>
<td>Colour</td>
<td>Orange</td>
</tr>
<tr>
<td>Hardness</td>
<td>25° Shore A</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>&gt; 1 MPa</td>
</tr>
<tr>
<td>Elongation</td>
<td>&gt; 500%</td>
</tr>
<tr>
<td>Density</td>
<td>1,23 g/cm³</td>
</tr>
<tr>
<td>Temperature range</td>
<td>-20 +75°C</td>
</tr>
<tr>
<td>Weather resistance</td>
<td>Excellent</td>
</tr>
</tbody>
</table>

Chemical resistance: Good overall chemical resistance, but we advise to be careful with aromatic oils and fuels, with vegetal oils and strong aromatic solvents. Contact our sales department for detailed specific information.

**SIZES AND PACKAGING**

<table>
<thead>
<tr>
<th>Size</th>
<th>Coil</th>
<th>In a box</th>
<th>Boxes / pallet</th>
</tr>
</thead>
<tbody>
<tr>
<td>20mm x 5mm</td>
<td>10m</td>
<td>5 Coils x 10m</td>
<td>60</td>
</tr>
</tbody>
</table>

**STORAGE AND SHELF LIFE**

Hydrotite POLYBAR has a shelf life of 2 years when stored off the ground in a cool and dry environment, away from sunlight.

**HEALTH & SAFETY**

Hydrotite POLYBAR is an irritant on contact with skin, mouth and eyes. Use protective gloves and goggles and clothing when handling the product.

Skin contamination: Wash with plenty of soap and water.

Eye contact: Irrigate with plenty of water and seek medical advice if irritation persist.