BPA-CEMswell

HYDROPHILIC SWELLING RUBBER SOLUTIONS FOR BELOW GROUND REINFORCED CONCRETE CONSTRUCTIONS, FOUNDATIONS AND TUNNELS
ACTIVE JOINT PROTECTION

Hydrophilic Swelling Rubber BPA-CEMswell is an expanding joint sealing profile which swells upon contact with water, while remaining dimensionally stable. It is primarily designed for the sealing of prefabricated concrete elements in basements, tunnels and mine shafts against water ingress up to 5 bar hydrostatic pressure.

BPA-CEMswell is an extruded TPE-based compound made from rubber, hydrophilic resin, polyethylene, silicone and special admixtures. On contact with water it can swell up to 4 times its own volume and under conditions of confinement and will mold itself to the surrounding surfaces producing a water-tight seal. The sealing effect is attained through the developing swelling pressure. BPA-CEMswell can perform multiple swelling cycles.

ADVANTAGES OF OUR HYDROPHILIC SWELLING RUBBERS

- BPA-CEMswell is an extruded TPE-based compound made from rubber, hydrophilic resin, polyethylene, silicon and special admixtures
- Designed to stop water ingress through prefabricated concrete elements up to 5 bar hydrostatic pressure
- Superior expansion upon contact with water, up to 400% swelling volume
- Reversable expansion process
- Dimensionally stable during expansion process
- With General Building Code Test Certificate (abP)
- Resistant to animal manure and salt water
- Reliably seals on contact with water by a controlled expansion under confinement in the joint
FUNCTION
OF THE HYDROPHILIC SWELLING RUBBER-TECHNOLOGY

Hydrophilic Swelling Rubber BPA-CEMswell is an expanding joint sealing profile which swells upon contact with water, while remaining dimensionally stable. It is an extruded TPE-based compound made from rubber, hydrophilic resin, polyethylene, silicone and special admixtures. On contact with water it is capable of swelling up to 4 times its own volume. BPA-CEMswell reliably seals on contact with water by a controlled expansion under confinement in the joint.

The expansion process is reversible. Please note that BPA-CEMswell is primarily designed for the sealing of prefabricated concrete elements. BPA-CEMswell can perform multiple swelling cycles.

APPLICATION AND INSTALLATION

BPA-CEMswell can either be installed with BPA-CEM805 One-Component Building Adhesive (A), with fitting rails (B) or alternatively with fitting bars (C).
PRODUCT VARIATIONS

**BPA-CEMswell**
**HYDROPHILIC SWELLING RUBBER**

BPA-CEMswell is available in various standard sizes for different applications. Please contact our Technical Department for user-defined shapes and sizes.

**BPA CEMswell inject**
**HYDROPHILIC SWELLING RUBBER**

The innovative BPA-CMswell inject combines the two proven sealing systems BPA-CMswell swelling rubber and a BPA injection hose. Together they form a unique economical double joint sealing system. The injection hose will only be injected when required. Due to its material properties, this process can be carried out even years later.

ACCESSORIES

**BPA-CMswell FITTING RAIL**

**BPA-CMswell FITTING BAR**

**BPA CEM805**
**ONE-COMPONENT BUILDING ADHESIVE FOR BPA-CMswell**

FORM OF DELIVERY AND STORAGE

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>18 x 7 mm</th>
<th>20 x 10 mm</th>
<th>23 x 15 mm</th>
<th>Ø 23 mm</th>
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</thead>
<tbody>
<tr>
<td>Box</td>
<td>6 rolls à 12 m</td>
<td>6 rolls à 12 m</td>
<td>5 rolls à 6 m</td>
<td>4 rolls à 5 m</td>
</tr>
<tr>
<td>Pallet</td>
<td>3600 m</td>
<td>3600 m</td>
<td>1500 m</td>
<td>500 m</td>
</tr>
</tbody>
</table>

**Storage**
Shelf life 3 years, when stored dry frost-free and shaded from direct sunlight
INNOVATIVE, TESTED AND APPROVED

Our products are independently tested and approved by bodies such as the British Board of Agrément (BBA), MPA Braunschweig, MPA Stuttgart, MPA Leipzig, DIBT (Germany), and Vattenfall Sweden. BPA-CEMswell meets the German General Building Code Test Certificate Standard. Relevant test reports and accreditations are available on request. Our quality management is accredited in accordance with the worldwide accepted standard DIN EN ISO 9001:2015. This accreditation guarantees the consistent, high quality of all BPA-products. Our global success is based on our continuous strive for excellence and our long lasting focus on improving construction techniques and performance by developing products that are easy to use and meet the performance criteria required to satisfy the most stringent construction standards worldwide. Due to this strong focus on developing high-quality systems and products we have been awarded a place in the TOP 100 Innovative Companies in Germany for two years in a row.

IN USE WORLDWIDE

For many years we’ve been active in the production and international sales of our innovative Hydrophilic Swelling Rubber BPA-CEMSwell. Due to the simple and efficient application options products made by BPA are first choice for the durable and fail-safe protection of below ground reinforced concrete constructions and tunnels world-wide. Please, find a small excerpt of our references below:

Aviva Stadium
Dublin | Ireland

Bjørvikatunnel
Oslo | Norway

Wankdorf-Stadium
Bern | Switzerland

Tunnel
Küblis | Switzerland

Train Station
Zürich | Switzerland

Train Station S21
Stuttgart | Germany
FURTHER PRODUCTS
AND THEIR FIELDS OF APPLICATION MADE BY BPA

Presented by:

BPA Distribution Partner

BPA GmbH
Behringstraße 12
D-71083 Herrenberg

www.BPA-waterproofing.com