



BPA-CEMswell

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

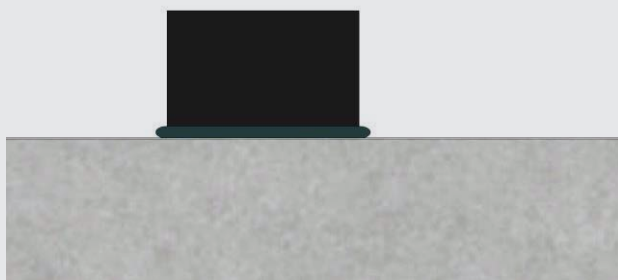
FUNCTION OF THE HYDROPHILIC SWELLING RUBBER-TECHNOLOGY

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.

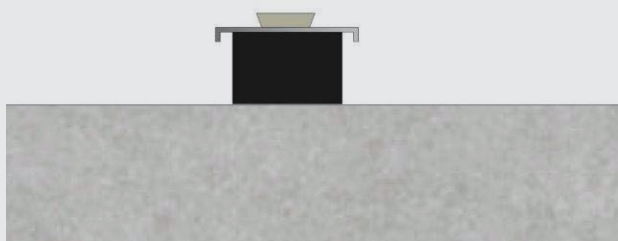


APPLICATION AND INSTALLATION

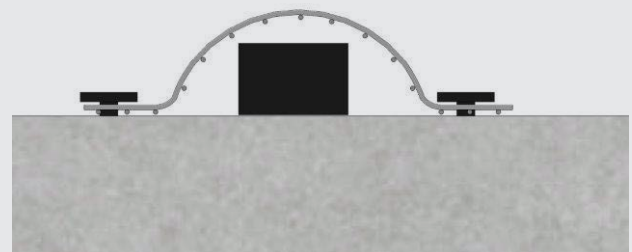


A Installation of BPA-CEMswell with BPA-CEM805 Adhesive

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



B Mechanical fixing of BPA-CEMswell with fitting rail



C Mechanical fixing with BPA-CEMswell with fitting bar

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
- Reversible 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



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

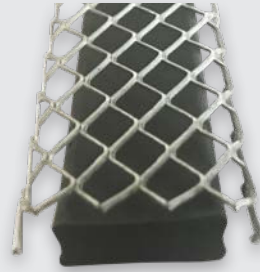
HYDROPHILIC SWELLING RUBBER

The innovative BPA-CEMswell inject combines the two proven sealing systems BPA-CEMswell 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-CEMswell
FITTING RAIL



BPA-CEMswell
FITTING BAR



BPA CEM805
ONE-COMPONENT BUILDING
ADHESIVE FOR BPA-CEMswell

FORM OF DELIVERY AND STORAGE

Dimensions	18 x 7 mm	20 x 10 mm	23 x 15 mm	Ø 23 mm
Box	6 rolls à 12 m	6 rolls à 12 m	5 rolls à 6 m	4 rolls à 5 m
Pallet	3600 m	3600 m	1500 m	500 m

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

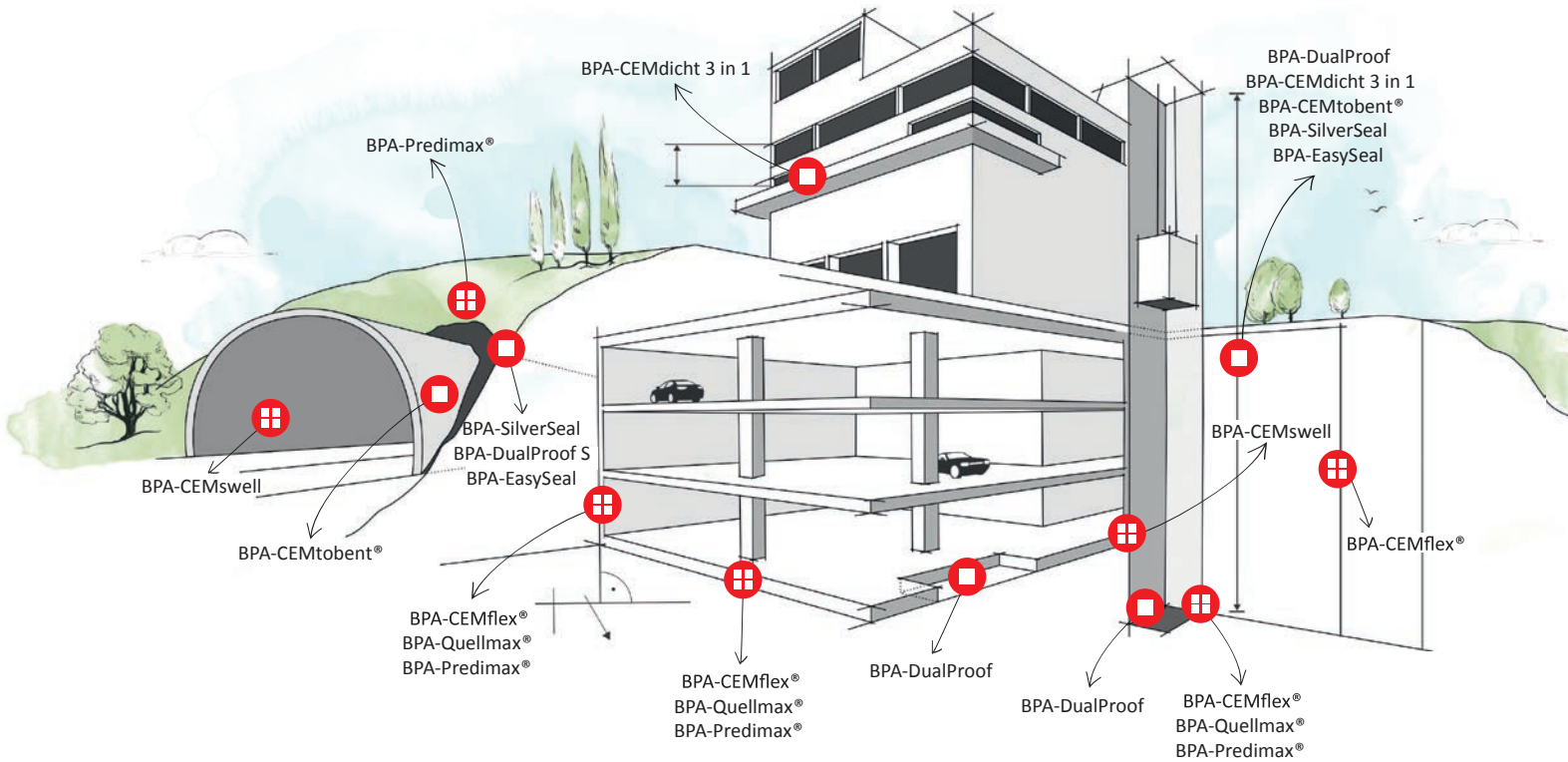


Train Station
Zürich | Switzerland



Train Station S21
Stuttgart | Germany

FURTHER PRODUCTS AND THEIR FIELDS OF APPLICATION MADE BY BPA



 Joint Sealing

 External Surface Waterproofing



BPA
WATERPROOFING SYSTEMS

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