







## True solution for combating moisture infiltration in concrete structures

BeSealed® is the latest product range of **Bekina® Compounds**, rubber compounder and sealing specialist.

### Hydrophilic solution

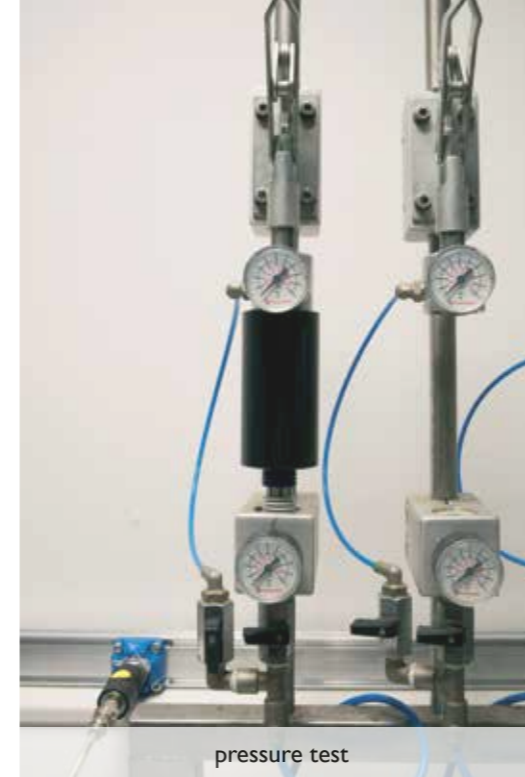
We developed **our own water-swellable** compound, based on a thermoplastic elastomer (TPE) which is **the foundation of our entire BeSealed® product range**. In addition, Bekina® Compounds has been producing Bentobar+, a bentonite based hydrophilic waterstop for sealing construction joints for more than twenty-five years now.

Are you an architect, a construction manager, or in any other way involved in projects to keep concrete constructions watertight? Then our BeSealed® product range offers you the solution to your requirements.

Are you looking for a specific solution? BeSealed® also offers tailor-made solutions and products.







pressure test



sealing test



injection moulding

## Daring to think outside the box

Innovation is deeply engrained within our organization. Our R&D department works to find new and innovative products that make our customers' lives simpler. **Our state-of-the-art, multi-purpose laboratory** is the ideal test and development environment for this objective. Furthermore, all our products have been tested under real life conditions and are certified by official testing institutes.

### A step ahead of the competition

You can see the results of our drive and passion for innovation and development in our current product range. Our active sealing solutions are not only **100% watertight**, they're also **smart** and **easy to use**. You'll not only save time and money, you'll also be a step ahead of the competition!

### Certificates

We ensure that all BeSealed® products are **compliant** with the most stringent **quality standards** and tested in numerous **international, independent testing laboratories**. Bekina® Compounds is an ISO 9001 certified company and its BeSealed® products have official certification, e.g. MFPA Leipzig, MPA Braunschweig, Vattenfall and SGS Intron.



expansion capacity test



pressure test under real conditions



finished Sealing Plug



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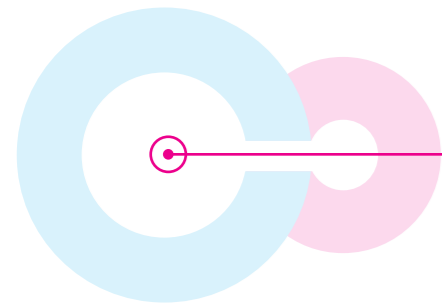


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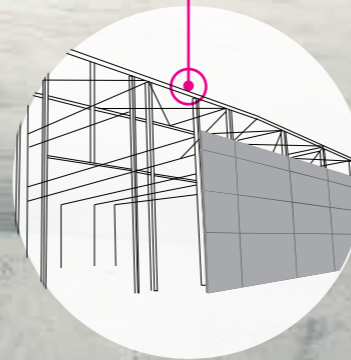
## Market specific

The BeSealed® sealing products can be used in a **wide range of application areas** dealing with concrete structures.

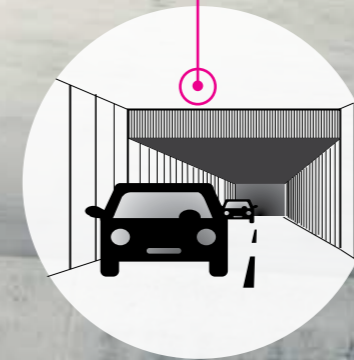
### We will develop it with you

We design and produce water swellable sealing systems for your specific application. We do this, taking into consideration the desired expansion behaviour, geometry, hardness, shape and colour, ...

precast



tunnel / metro



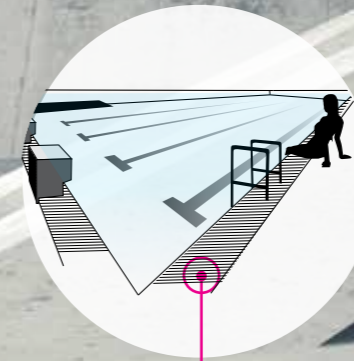
underground constructions



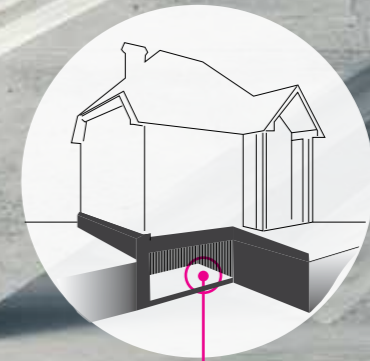
bridge



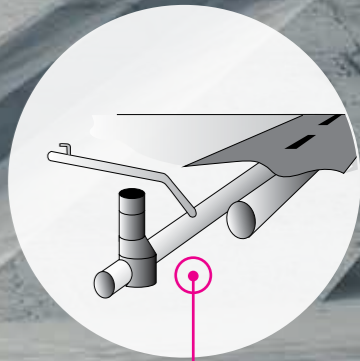
dam



swimming pool

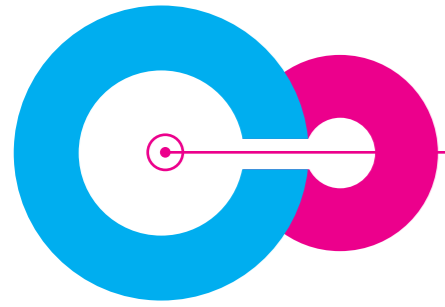


basement

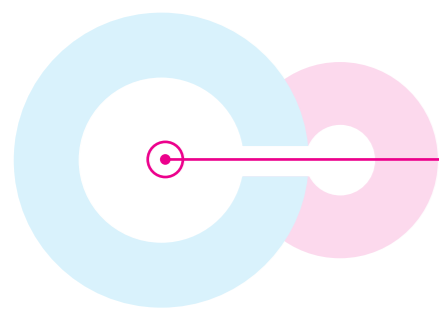
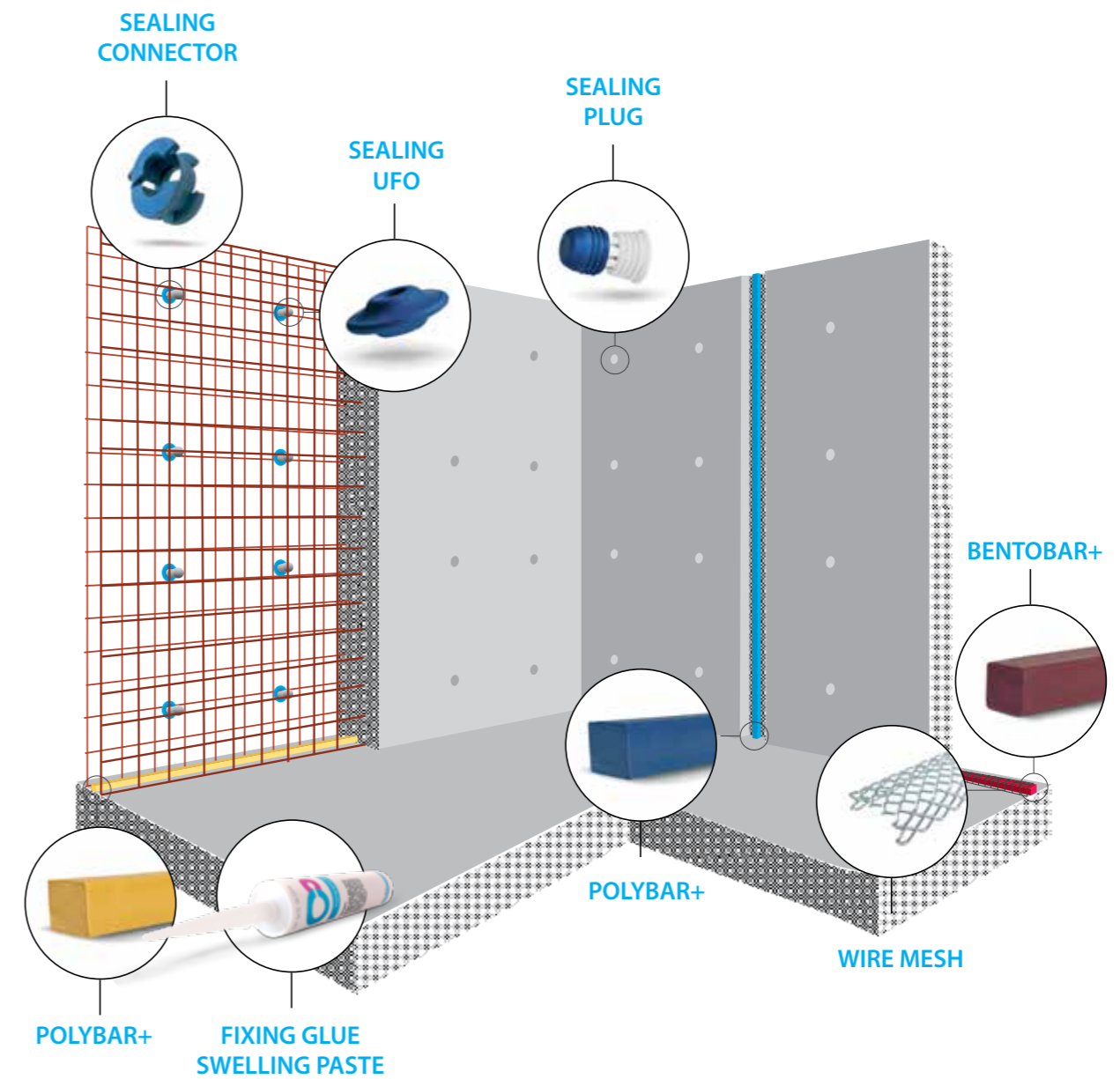
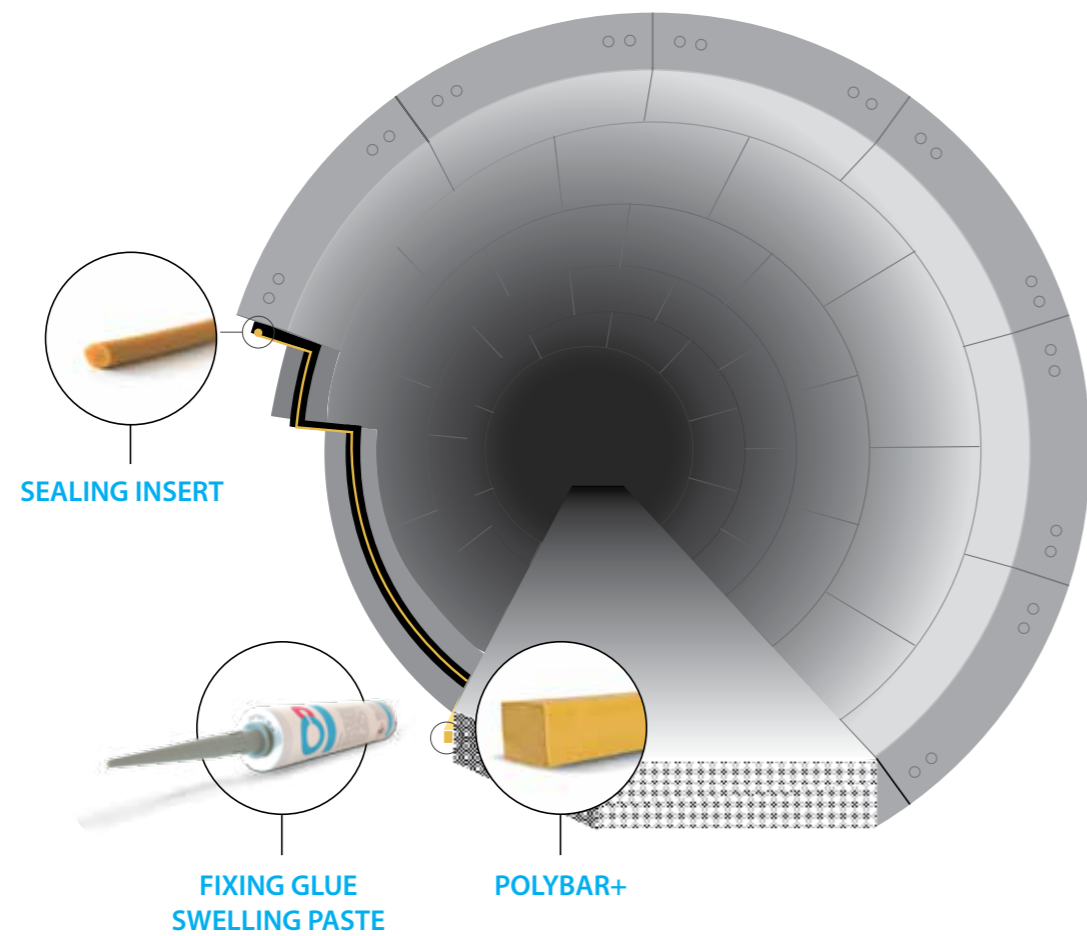


manhole









References



Doha - metro (Qatar)



Antwerp - Sportpaleis (Belgium)



# SEALING PLUG

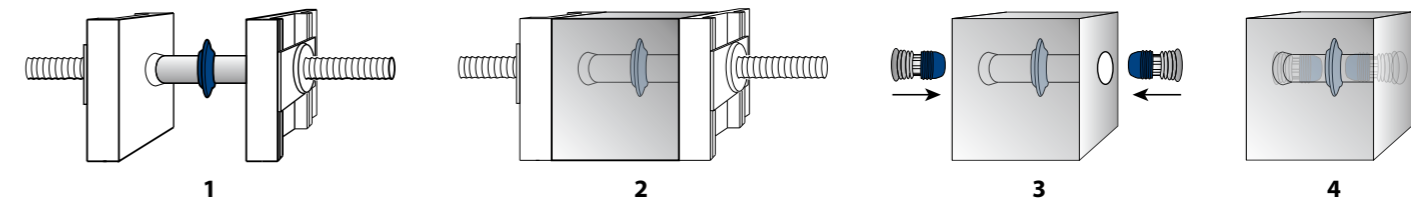
Patented water swellable plug for a perfect seal of formwork spacers

The **Sealing Plug** is a revolutionary patented solution for sealing structural concrete **formwork spacers**. Sealing Plugs are made of a water-swellaable rubber cap and a solid core. The cap **prevents water infiltrating** the spacer and the core provides a mechanical anchor under water pressures up to 6 bar.

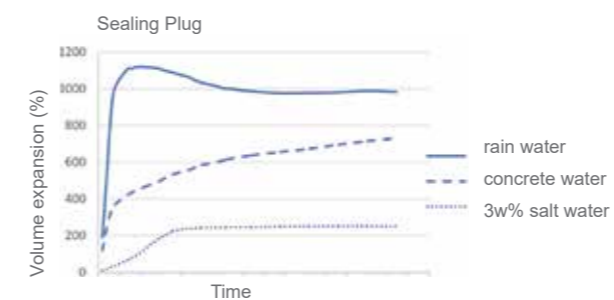
This **hydrophilic, self-expanding sealing solution** is one of our most innovative – it guarantees a perfect seal, combating moisture infiltration with a single hammer blow!



Sealing Plug



## EXPANSION CAPACITY SEALING PLUG





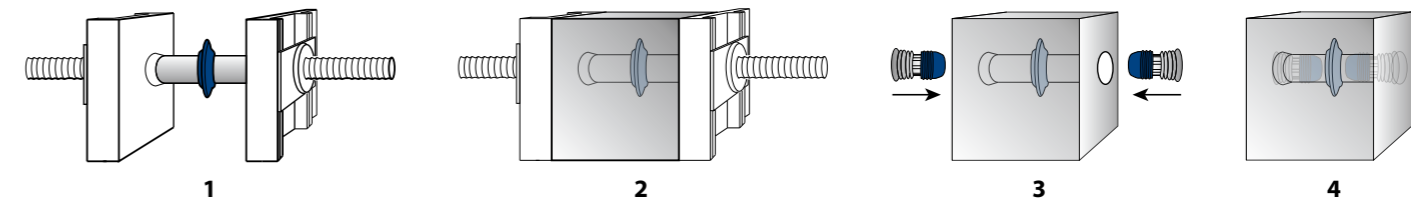


# SEALING UFO

Watertight sealing of concrete cracks around formwork spacers

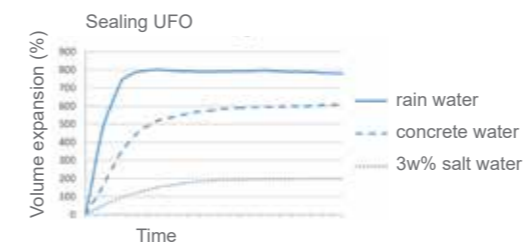
The **Sealing UFO** is the perfect solution for combating water infiltration around **formwork spacers** and **surrounding concrete**. Sealing UFOs prevent water infiltrating through cracks in the concrete around formwork spacers.

This innovative sealing system is **100% watertight**, quick and easy to install, and available in a **wide range of sizes**.



Sealing Ring and Sealing UFO

## EXPANSION CAPACITY SEALING UFO







# SEALING CONNECTOR

Watertight sealing of tie rods

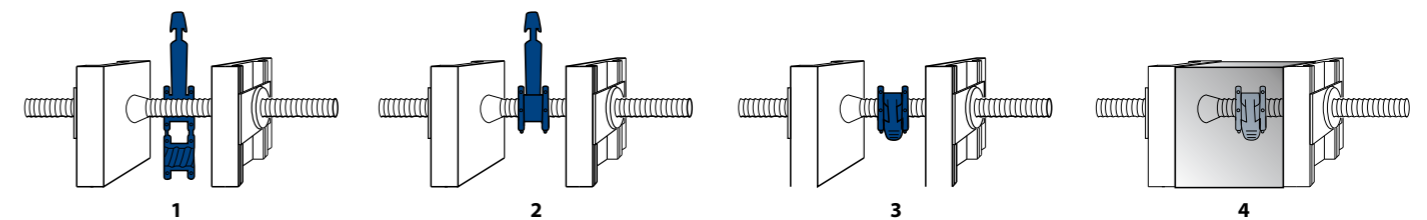
The **Sealing Connector** is the perfect solution for **heavy-duty concrete structures** where formwork tie bars remain in situ. The hydrophilic Sealing Connector is made from synthetic, water swellable rubber that prevents moisture infiltration fully.

Slide the connectors over the tie rod and anchor using the Sealing UFO or Sealing Ring.

The Sealing Connector is also **available with closing strip**. Slide this Sealing Connectors over the tie rod and anchor using the closing strip. Fast and easy.



Sealing Connector anchored with Sealing UFO

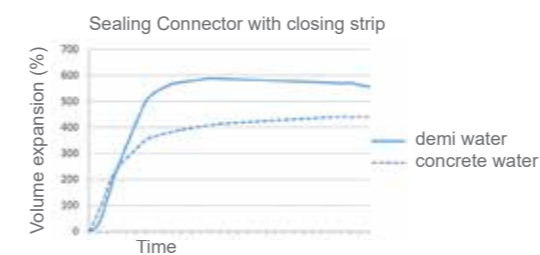


Sealing Connector with closing strip

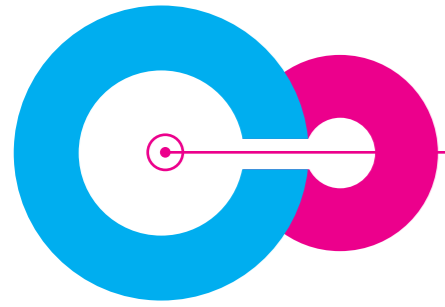


Sealing Connector with closing strip & Sealing Connector

## EXPANSION CAPACITY SEALING CONNECTOR











## BENTOBAR+

Bentonite self-expanding sealing bar for sealing construction joints

Bentonite self-expanding sealing bars are a proven valuable solution for concrete and construction industries, providing an efficient solution for sealing construction joints. We've been selling Bentobar+ worldwide for over twenty-five years. It's well known for its stability and durability.

### Perfect seal

Even after repeated wet-dry cycles, Bentobar+ maintains a perfect seal thanks to its high rubber content. Bentobar+ is also far less susceptible to washing out than traditional bentonite seals. In addition to the standard version, variants also exist for use in seawater or contaminated water. Both exist in a wide range of sizes.



Standard version



Standard version



Saline water version

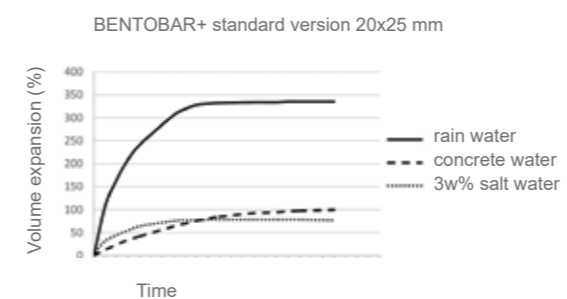


### Fixation with wire mesh or glue

Our U-shaped steel wire meshes are extremely user-friendly due to their remarkably high-finishing level. No sharp cutting edges, so no risk of injuries.

BeSealed<sup>®</sup> Fixing Glue ensures fast and strong fixation of water swellable sealing profiles to concrete. Moreover, BeSealed<sup>®</sup> Fixing glue has excellent adhesion strength, even on wet concrete surfaces.

### EXPANSION CAPACITY BENTOBAR+







## POLYBAR+

### Revolutionary development for sealing of construction joints

Polybar+ self-expanding sealing bars are a **revolutionary alternative to bentonite** thanks to their **impressive expansion capacity**. Polybar+ remains stable even after repeated wet-dry cycles. It is also resistant to scouring and **extremely easy to use** thanks to its lightweight and high elasticity.

Its expansion capacity and geometry can be fully customized, so that we can develop and provide the best possible solution in every situation.

### Wet and rainy conditions, seawater, extremely high saline concentrations?

In addition to the standard version, variants also exist for use in seawater (saline concentrations up to 3%) and contaminated water, for use under highly saline conditions (salt concentrations up to 10%) or for use in rainy conditions (delayed swelling performance).

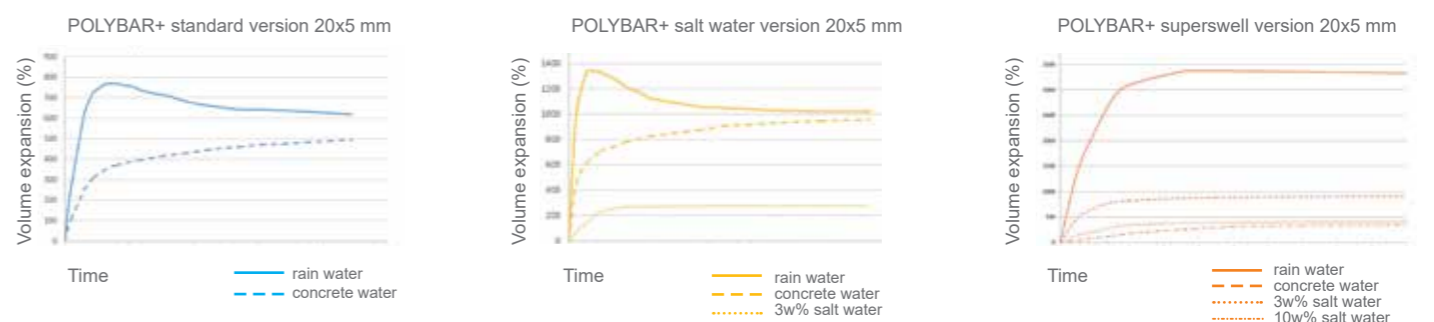


#### Fixation with glue or swelling paste

BeSealed<sup>®</sup> water swellable paste is a high quality, one component polyurethane adhesive which swells up to 450% in contact with water.

BeSealed<sup>®</sup> Fixing Glue ensures fast and strong fixation of water swellable sealing profiles to concrete.

#### EXPANSION CAPACITY POLYBAR+





# SEALING INSERT

Revolutionary development for waterproofing precast segments

BeSealed<sup>®</sup> water swellable inserts are particularly suited for waterproofing tunnels.

## Creating sealing power

Our inserts are applied in the classic EPDM profiles surrounding the tunnel concrete segments. Upon water infiltration, our self-expanding bars will be activated and will absorb the water. Consequently, the EPDM profiles will expand, high pressure between the segments is created and water infiltration is prevented. **Moisture and leakage will not get any chance!**

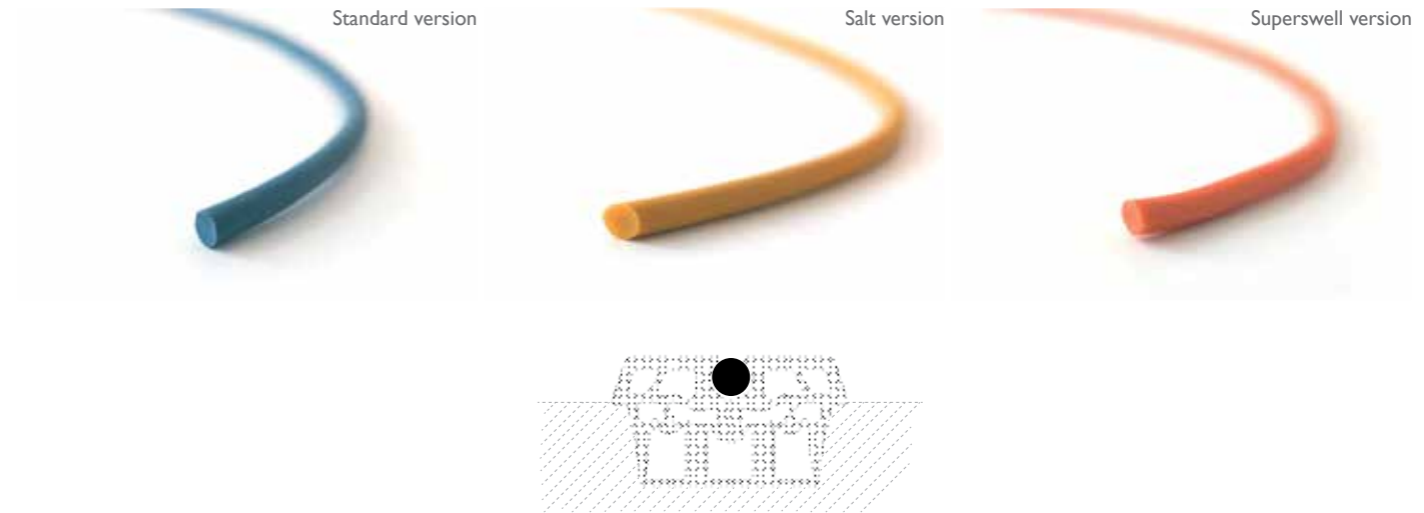
Specifically for tunnelling projects in areas where ground water has a high salt concentration, BeSealed<sup>®</sup> developed "Polybar+ Superswell", a sealing bar with an impressive expansion capacity.



Standard version

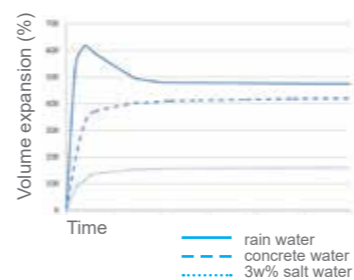
Salt version

Superswell version

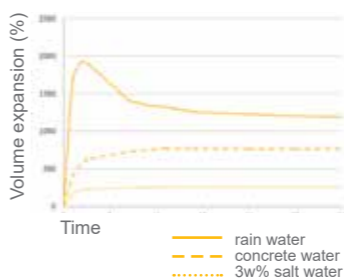


## EXPANSION CAPACITY SEALING INSERT

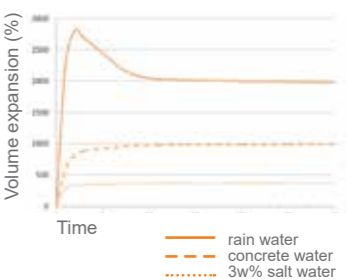
SEALING INSERT standard version 4 mm



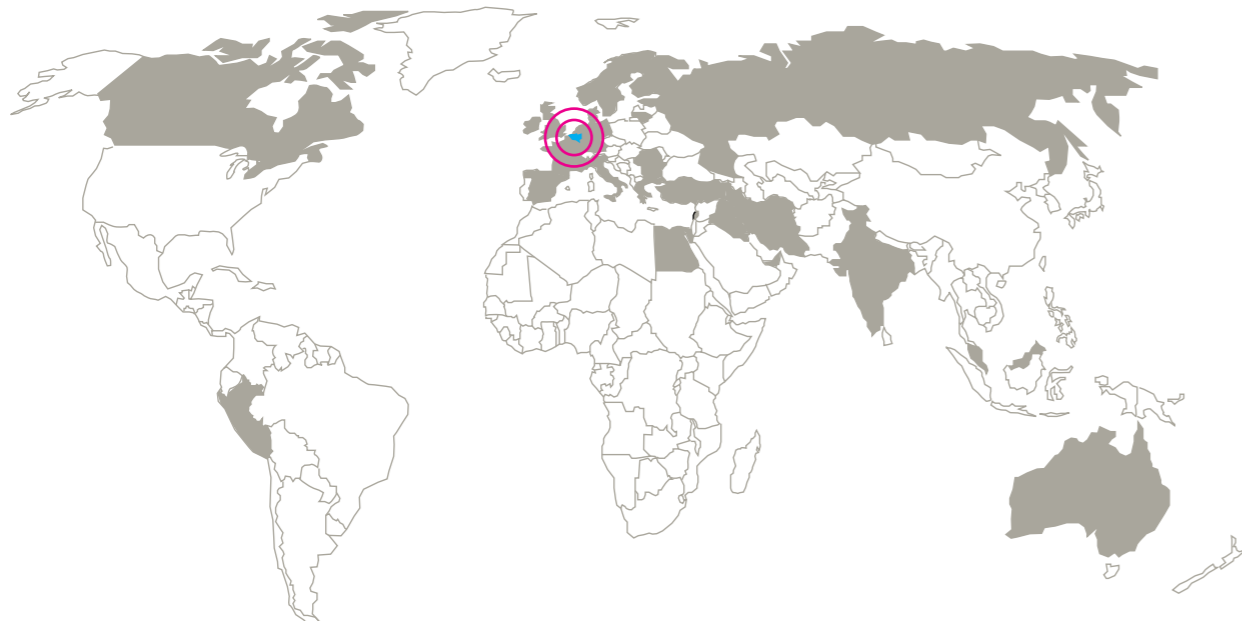
SEALING INSERT salt version 4 mm



SEALING INSERT superswell version 4 mm







## Worldwide network / export

Our high-quality products are designed to meet high standards and are used worldwide in various industries, each with their specific needs and requirements.

Through daily interaction with our partners in the field, BeSealed® is able to offer accurate answers to all sorts of technical product requests and market specific questions.



## BeSealed®

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