

# QUELLMAX® BLACKSTOP BENTONITE WATERSTOP

Quality standard bentonite waterstop tape

## PRODUCT DESCRIPTION

Quellmax® consists mostly of bentonite (a natural clay) embedded in a matrix of high molecular butyl rubber as well as special fillers and crystalline admixtures. Bentonite has the property to quickly enlarge its volume through swelling, when it comes in contact with water. It features a strong, fast and reliable swelling performance.



## APPLICATION AREAS

Quellmax® Blackstop Waterstop is designed to prevent water ingress through nonmovement joints in reinforced concrete structures. Our swellable bentonite waterstop tapes are used for waterproofing of vertical and horizontal structural joints, especially those with complicated geometrical joint shapes. Quellmax® is a swellable bentonite waterstop tape for the sealing of structural joints which are exposed constantly or temporarily to water.

## HOW DOES QUELLMAX® BLACKSTOP WORK?

When installed into the structural joint, Quellmax® Blackstop immediately starts to swell on contact with water. When Quellmax®-Blackstop is covered completely by concrete, a compacting pressure builds up and the construction joint is sealed instantly. Swelling and shrinkage are infinitely reversible. Quellmax® is activated by the alkalinity of fresh concrete, reacts with water and swells preventing water ingress through the joints. Quellmax® is tested and approved up to 7 bar water pressure and also for use in changing water tables (wet-dry circle test successfully completed).

## CHARACTERISTICS AND ADVANTAGES

- ☞ Fast and powerful swelling when it comes in contact with water
- ☞ Dimensionally extremely stable, not sticky, even at high temperatures in summer
- ☞ Self-injection effect, that is to say penetration into any cracks and cavities because of a powerful swelling effect
- ☞ Swelling and shrinkage are infinitely reversible
- ☞ More than 300% swelling volume
- ☞ Quellmax® is tested and approved up to 7 bar water pressure and also for use in changing water tables

## PRODUCT DATA

	Quellmax® Blackstop	Artikelnummer
Dimensions/ Packaging	16 x 21mm: 30m box (6 x 5m); 900m / pallet	11-100
	18 x 24mm: 30m box (6 x 5m); 900m / pallet	11-200
	20 x 25mm: 30m box (6 x 5m); 900m / pallet	11-250
	10 x 20mm: 70m box (14 x 5m); 2.100m / pallet	11-502
	; other dimensions on request	
Storage	3 years, when stored off the ground in dry conditions, which is free from frost	



## TECHNICAL DATA

Form:	Waterstop tape is rectangular in cross-section and flexible
Colour:	black/dark grey
Dimensions:	20x25 mm; 18x24 mm; 16x21 mm; 10x20 mm
Coating:	Talcum-coated as standard
Weight:	830 g / m (20x25 mm); 730 g / m (18x24 mm) 570 g / m (16x21 mm); 310 g / m (10x20 mm)
Toxicity:	Non-hazardous, non-poisonous category material, drinking water safe

## TEST CERTIFICATES

- 🔗 General Test Certificate
- 🔗 Drinking Water Test Report
- 🔗 Slurry and animal manure resistance

## ADDITIONAL INFORMATION

### Surface preparation

The surface onto which Quellmax® is to be placed should be clean and flat.

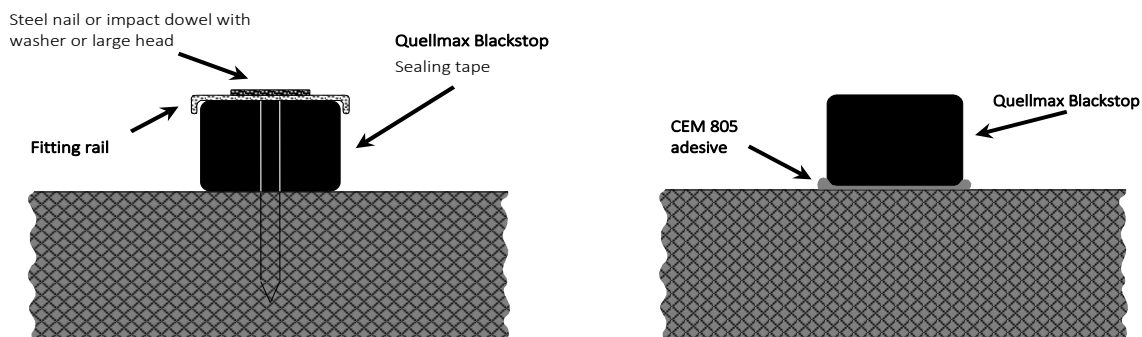
### General advice

Service temperature:  $\geq 5^{\circ}\text{C}$

The above mentioned temperatures constitute the generally valid area in which no additional measures need to be taken during application.

### Installation advices

- 🔗 The swellable bentonite waterstop tape must have perfect and continuous contact to the ground.
- 🔗 To fasten the Quellmax® you can either use Quellmax fitting rails, steel mesh and steel nails or CEM805 adhesive.
- 🔗 Quellmax® tape may be laid in lengths of 5m (standard length) in the middle of the wall.
- 🔗 There should be a minimum of 80mm of concrete covering all sides of the Quellmax® Blackstop Waterstop.



### **Environment and health**

This product does not represent a hazardous substance within the meaning of the EU Hazardous Substances Regulation. A safety data sheet for transport, placing on the market and use is available on the request.

### **Dangers and Safety**

The essential safety, toxicological, physical and ecological data for the handling of Quellmax can be taken from the product-specific safety data sheets.

### **Data**

All technical data stated in this product data sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

### **Legal advice**

All above mentioned Information concerning BPA products, especially any recommendations and advices relating to the application and use of BPA products are given in good faith based on BPA's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with BPA's recommendations.

In practice, the differences in materials, actual site conditions and other factors outside are such that no warranty nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered.

The user of the product must test the product's suitability for the intended application and purpose before proceeding with the full application of the products. BPA reserves the right to change the properties of its products without notice.

Users must always refer to the most recent issue of the Product Data Sheet for the product concerned, copies of which will be supplied on request. All sales of BPA are subject to our current terms and conditions.

### **Local Restrictions**

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local product data sheet for the exact description of the application fields.

