

QUELLMAX® PLUS BENTONITE WATERSTOP

Bentonite waterstop tape with patented rain protection

PRODUCT DESCRIPTION

Quellmax® Plus is a bentonite based water-stop tape with a patented rain protection. The unique protection coating prevents premature swelling of the tape for up to 3 days.

The tape itself consists mostly of bentonite (a natural potter's 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® Plus 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® Plus is a swellable bentonite waterstop tape for the sealing of structural joints which are exposed constantly or temporarily to water.

HOW DOES QUELLMAX® PLUS WORK?

When installed into the structural joint, Quellmax® Plus does not react immediately on contact with water because of the patented rain protection. Contact with rain or general site water will not activate the product, but when Quellmax®-Plus is covered with concrete the alkalinity of the fresh concrete dissolves the protective coating and instantly activates the Quellmax®-Plus Waterstop which swells on contact with water to prevent water ingress through the joint. Swelling and shrinkage are infinitely reversible. 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

- ⊕ Special coating prevents premature swelling for up to 3 days
- ⊕ Dimensionally extremely stable, not sticky, even at high temperatures in summer
- ⊕ Suitable for both vertical and horizontal applications
- ⊕ 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
- ⊕ Independently tested for use up to 7 bar water pressure

PRODUCT DATA

	Quellmax® Plus	Artikelnummer
Dimensions/ Packaging	16 x 21mm: 30m box (6 x 5m) ; 900m / pallet 18 x 24mm: 30m box (6 x 5m) ; 900m / pallet	11-300 11-400
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
Coating	unique special patented coating, which gets neutralised by alkalinity
Dimensions:	18x24 mm; 16x21 mm
Weight:	730 g/m (18x24mm) 570 g/m (16x21mm)
Toxicity:	Non-hazardous, non poisonous category material, drinking watsafe

TEST CERTIFICATES

- 🔗 Building Supervisor's General Test Certificate
- 🔗 HYG Drinking Water Approval
- 🔗 Slurry and animal manure resistance

ADDITIONAL INFORMATION

Surface preparation

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

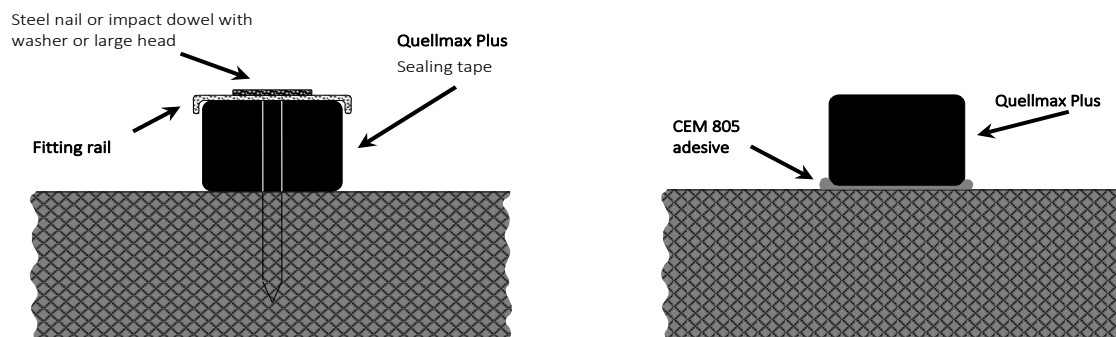
General advice

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

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

Installaion advices

- 🔗 The swellable Quellmax® Plus must have perfect and continous contact to the ground.
- 🔗 To fasten the Quellmax® Plus you can either use Quellmax® fitting rails and steel nails or CEM805 adesive.
- 🔗 The Quellmax® Plus 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.

