

# CEMTEC® WATERSTOP

## MASTIC WATERSTOP FOR CONSTRUCTION JOINTS

### PRODUCT DESCRIPTION

CEMtec® is a strip-applied mastic waterstop for nonmoving concrete joints. Unlike hydrophilic waterstop products, CEMtec® will not expand when subjected to moisture.



### APPLICATION AREAS

CEMtec® is designed to use with fresh concrete during the hydration and curing process. When properly installed, CEMtec® creates a watertight seal between concrete surfaces. CEMtec® is a non-swelling joint sealing tape specifically designed to provide a permanent, watertight seal between construction joints and predetermined crack joints in concrete structures.

CEMtec® is designed and developed for the use in combination with prefabricated (concrete) elements. Other than expanding gaskets, CEMtec® can be used between elements and there is no need being fully embedded in in-situ concrete.

CEMtec® is suitable for a variety of joint applications, including:

- 📍 Retaining Walls
- 📍 Box Culverts
- 📍 Penetrations
- 📍 Concrete Pipe and Piles
- 📍 Vaults
- 📍 Slabs
- 📍 Elements

### HOW DOES CEMTEC® WORK?

CEMtec® is a strip-applied mastic waterstop for nonmoving concrete joints. Unlike hydrophilic waterstop products, CEMtec® will not expand when subjected to moisture. The CEMtec® sealing effect is attained through the fuse with (fresh) concrete during the hydration and curing process or through the developing pressure, for example, precast concrete elements even if the surrounding surfaces are rough.

### CHARACTERISTICS AND ADVANTAGES

- 📍 Unaffected by groundwater or wet/dry cycles
- 📍 Does not rely on swelling to be watertight
- 📍 Bonds to cured concrete surfaces (precast concrete elements) and fuses with fresh concrete during the hydration and curing process
- 📍 good performance properties thanks to modification with polymers (Elongation  $\geq 500\%$ )
- 📍 high chemical resistance to aqueous solutions, salts, diluted acids, etc.
- 📍 high ageing-resistance

### PRODUCT DATA

|                          | CEMtec®   | Artikel No. |
|--------------------------|---|-------------|
| Dimensions/<br>Packaging | CEMtec® 15x40 ;<br>15 x 40mm ; 28m box (4 x 7,0m) ; 672m / pallet | 15-205      |
|                          | CEMtec® 20x30 ;<br>20 x 30mm ; 28m box (5 x 5,6m) ; 672m / pallet | 15-210      |



|                |  |
|----------------|--|
| <b>Storage</b> | Shelf live approx. 12 months when stored clean, dry, frost-free and shaded from direct sunlight.<br>Max. 4 cartons lying upon another. |
|----------------|--|

## TECHNICAL DATA

|                  |   |
|------------------|---|
| <b>Form</b>      | Waterstop tape is rectangular and flexible                          |
| <b>Colour</b>    | Black   |
| <b>Dimension</b> | 15 x 40mm, 20 x 30mm  |
| <b>Coating</b>   | -   |
| <b>Weight</b>    | app. 960 g / m (15x40 mm)<br>app. 960 g / m (20x30 mm)              |
| <b>Toxicity</b>  | Non-hazardous, non poisonous category material, drinking water safe |

## TEST CERTIFICATES

- 🔗 Test certificate for use in pressurised water up to 6.9 bar (element walls / prefabricated elements)
- 🔗 Animal manure resistance test

## ADDITIONAL INFORMATION

### Surface preparation

The surface onto which CEMtec® is to be placed should be clean and flat.  
CEMtec® should only be installation on surfaces that have temperature of at least +5 °C. At lower temperatures additional measures are necessary like i.e. pre-heating of the joint flanks with the help of a flame.

### General advice

Service temperature: +5 °C up to +50 °C

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

### Installaion advices

- 🔗 The CEMtec® waterstop tape must have perfect and continuous contact to the ground.
- 🔗 To fasten the CEMtec® you can either push int fresh concrete, or you can stick it to the concrete surface.

### 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 CEMtec® can be taken from the product-specific safety data sheet.

### **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.

