



## CEMflex VB Plate Waterstop

Product Information Page

CEMflex VB Plate Waterstop consists of a galvanised steel plate encapsulated in a special patented coating which reacts with water to provide a watertight joint, for use in all non-movement construction joints in reinforced concrete.

CEMflex VB Plate Waterstop is supplied in two meter lengths, it is 150mm high and has an overall thickness of 1.25mm.

### Specification Tip for Design Professionals:

CEMflex VB Plate Waterstop may be specified by name or by using the following description: a propriety galvanised steel plate encapsulated in a special patented active coating which reacts with water and moisture to provide a watertight joint, for use in all non-movement construction joints in reinforced concrete.

- Independently tested for use up to 5 bar water pressure
- A highly effective water-stop, suitable for use in all non-movement construction joints in in-situ reinforced concrete
- May be installed before the concrete is poured or installed directly into the fresh concrete
- Requires only 30mm of concrete cover to function correctly
- Suitable for both Vertical and Horizontal applications
- Highly effective when detailed with PVC Expansion Joint Water-bars for sealing the joint between Movement Joints and Non-Movement Joints
- No sticky protection tape to be removed from CEMflex VB Plate Waterstop prior to use
- Offers strength and agility, it is quick and easy to install without welding or special fitting equipment
- Excellent bond with the concrete
- The patented coating used on CEMflex VB Plate Waterstop has crystallization properties, which seal any cracks in the concrete
- May be installed in all weather conditions, it is fully weatherproof



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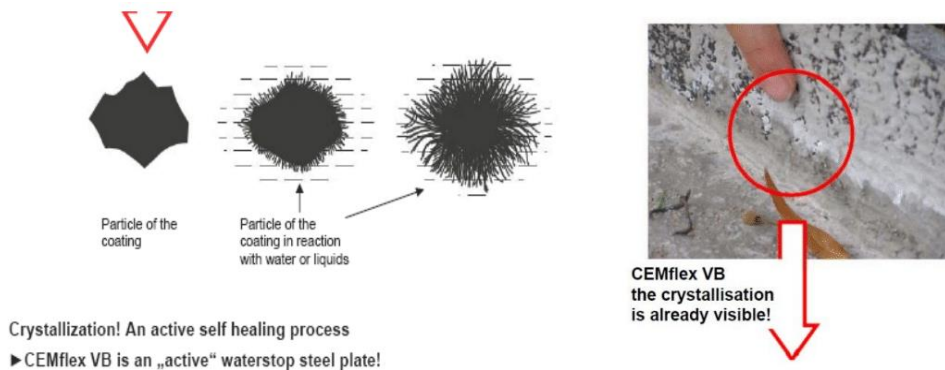


## How does CEMflex VB Plate work:

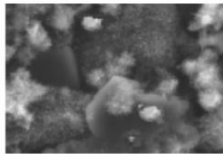
When fresh concrete is placed around CEMflex VB Plate Waterstop, the alkalinity (pH11) of the concrete activates the patented coating producing a chemical reaction, causing the patented coating to soften and expands lightly, improving its osmotic effect. This allows it to penetrate deeply into any cracks in the concrete where it crystallises and seals the concrete.

Once installed, the patented coating on CEMflex VB Plate Waterstop has infinite sealing ability. Should water or moisture come into contact with the coating at any time in the future, the coating will re-activate and repeat the sealing process.

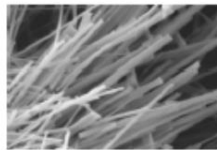
## Characteristics of CEMflex VB Plate



### The CEMflex VB crystallization shown under a microscope

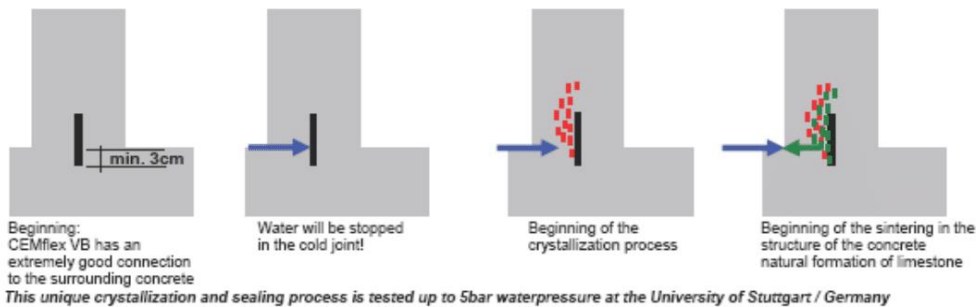


Calciumhydroxy based crystalline fibers



Calciumhydroxy based crystalline needles

### CEMflex VB

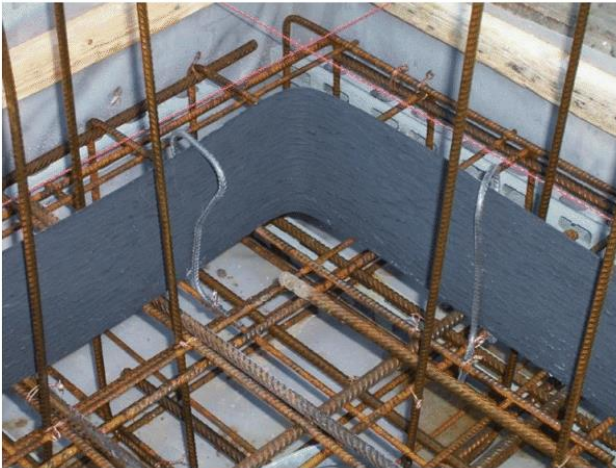


### Application Instructions:

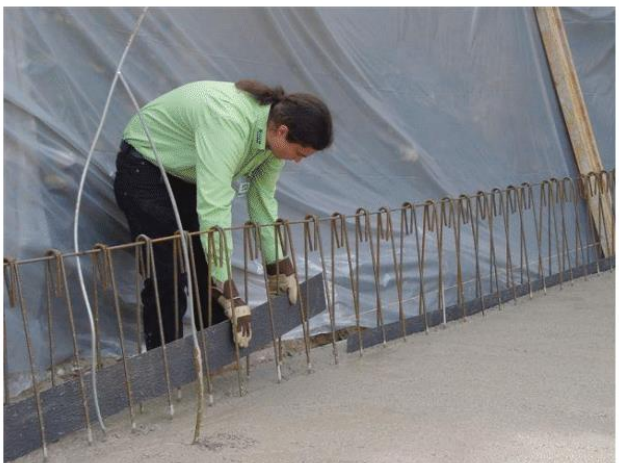
CEMflex VB Plate Waterstop is a strong yet pliable element which may be easily shaped for detailing difficult angles. It may be cut to length, using a sharp cutting tool.

CEMflex VB Plate Waterstop should be installed ensuring that at least 30mm of the plate is embedded into the first pour of concrete, allowing the remainder of the plate to be covered by the next pour of concrete. The overlapping of the plate must be a minimum of 100mm, and it is held together using CEMflex Omega Holders/ Clips.

CEMflex VB Plate Waterstop may be installed by fixing it to the reinforcement using the CEMflex Omega Holders (as per figure one) prior to pouring the concrete or alternatively CEMflex VB Plate Waterstop may be installed by pushing the plate into the freshly poured concrete to a depth of at least 30mm, with an overlap of 100mm at the ends and fixed with a CEMflex Clip (as per figure two).



**CEMflex VB Plate Waterstop installed prior to the placement of the concrete**



**Installation of CEMflex VB Plate Waterstop into the fresh the concrete.**

### Form of delivery:

CEMflex VB Plate Waterstop is supplied in 2 meter lengths, it is 150mm high and 1.25 mm thick. CEMflex VB is Waterstop packed in wooden boxes with 50 lengths per box.

### Storage:

CEMflex VB Waterstop should be stored off the ground, in dry conditions which are free from frost.

### Additional Information

For further details, practical presentations or independent test reports results on CEMflex VB Plate Waterstop, please contact our Technical Department.

### Test Results:

- ✓ BBA Approved
- ✓ MPA –Building Supervisor’s General Test Certificate
- ✓ iBMB (P-47/258/09)

### Independent Tests:

- ✓ The Public German Railway Authority –80 year service life
- ✓ Vattenfall – Swedish Water Tightness Test
- ✓ TZW - Drinking Water Approval

**Please protect the environment: Dispose of waste in accordance with the local authority regulations.**

### Disclaimer:

The general information provided in the present technical description, application guidelines and other recommendations, is based on research and experience. However, the client is obliged to determine themselves what products are suitable for use. Accordingly, no liability will be accepted by IBC Limited t/a SURFASOLOGY™.

**For further information contact the SURFASOLOGY™ Technical Department.**

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