

# COSTAR SWELLABLE WATERSTOP

## High Performance Swellable Waterstop

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### Description

Costar Swellable Waterstop is hydrophilic swelling waterstop which exhibits excellent durability and water sealing capacity. It expands as it absorbs water and fills concrete joint gaps conforming to the gap variation, ensuring excellent sealing. It is suitable for use in Vertical and horizontal cast-in-place concrete joints where limited movement is expected. Costar swellable waterbar is ideal for new concrete structures or between new and existing concrete.

### Uses

- It is suitable for use in all kinds of cast-in-place concrete construction joints, as well as steel, concrete.
- Tunnels, pits, Sewerage & water treatment plants
- Pipe penetrations Subway stations
- Swimming pools and reservoirs
- Basements etc.

### Application Instruction

#### Substrate Preparation:

Concrete surfaces and/or pipe must be clean and free from laitance, dirt, dust and any other bond inhibiting substances.

#### Application:

It is essential that there is at least 3" coverage of concrete from the side exposed to water. Bond Waterstop-Strip with a suitable adhesive. Apply a bead of adhesive and press the Waterstop-Strip into the adhesive until it oozes out from beneath. Approximately 4.5 - 6mm bead will yield approximately 9 m of coverage.

Do not begin the placement of concrete for at least 8 hours after bonding. Ensure that the waterstop makes complete contact with the substrate. Waterstop connections can be made by overlapping by 2" (50 mm) or by butt jointing. The waterstop must be placed tightly together to prevent gaps. Butt jointed waterstops must be covered by a separate section of waterstop with 31.75 mm overlap to both sections. Alternately, Waterstop-Strip can be fastened with masonry nails, 40 – 50mm long with 20 mm diameter washer. Space nails at a maximum of 200 mm centers with a minimum spacing to ensure proper substrate contact.



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### Typical Properties

Toxicity	None
Bulk Density	1.24g/dm <sup>3</sup>
Dimension	5mm×20mm
Swelling Capacity	50% after 2 hours 450% after 24 hours 800% after 7-8 hours
Application Temperature	100C-450C
Expansive pressure	1.06N/mm <sup>2</sup>

### Packaging

Roll = 40 meters  
Box = 5 rolls

### Limitation

- Store the waterstop dry.
- Protect the waterstop from moisture until the concrete is poured.
- Before concrete placement, visually inspect the waterstop.
- Swollen waterstop is unsuitable and must be removed.
- Do not use around PE pipe.

### Shelf Life

2 years, stored dry, frost free, in the original unopened pack.

### Limited Warranty

All recommendations, statements and technical data herein are based on tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty either expressed or implied. User shall rely on his or her own information and tests to determine suitability of the product for the intended use and user assumes all risk and liability resulting from his or her use of the product. Nothing contained in any supplied materials relieves the user of the obligation to read and follow the warnings and instruction for each product as set forth in the current Technical Data Sheet, product label and Safety Data Sheet prior to product use away.

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