



# COSTAR SWELLABLE WATERSTOP

High Performance Swellable Waterstop

## PRODUCT DESCRIPTION

Costar Swellable Waterstop is a 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. It has a rectangular profile and is available in several sizes.

## USES

Typical applications include construction joints in:

- All kinds of cast-in-place concrete construction joints, as well as steel, concrete and thick-walled PVC (min. 1/8" (3.1mm)) pipe penetrations.
- Tunnels, pits, Sewerage & water treatment plants
- Pipe penetrations and Subway stations
- Waterproofing Swimming pools and reservoirs joints.
- Can be employed for use in securing Basements Joints etc.

## CHARACTERISTICS / ADVANTAGES

- Ease of application
- Can swell into cracks and gaps openings.
- Applicable on a wide range of substrates
- Highly economical
- Swells in contact with water
- Resistant against water and various chemical substances.
- There is no hardening time needed.
- Adaptable to fit many different detailing tasks  
Different types and dimensions available
- Doesn't require welding for joining

## APPLICATION

### Substrate Preparation:

- Concrete surfaces and/or pipe must be clean and free from laitance, dirt, dust and any other bond inhibiting substances.
- Ensure that concrete substrate over which water bar will be applied is free from dip hole, else administer the use of a repair mortar prior to water bar installation.

### 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.
- 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 the side 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 31.75mm 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 200mm centers with a minimum spacing to ensure proper substrate contact.

## CONSUMPTION

Approximately 4.5 - 6mm bead will yield approximately 9m of coverage.

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## TECHNICAL PROPERTIES

Density (TSE 3078 – ASTM D 792)	1,27 g/cm <sup>3</sup>
Shore A Hardness (TSE 3078 – ASTM D 2240)	75±5
Tensile Strength (TSE 3078 – ASTM D 412)	15(+) N/mm <sup>2</sup>
Elongation (TSE 3078 – ASTM D 412)	% 300
Water Absorption (TSE 3078 – ASTM D 412)	% 1,5 max. in weight (24 hours)
Tear Strength (ASTM D 624)	18 N/mm
Hydrostatic Head	Up to 10 m head
Ash Content (TSE 3078)	5% max. in weight
Swelling Pressure	≤ 16 bars after 3 days stored in tap water
Service Temperature	-20°C to 50°C
HS Code	3920.49.90.00.00
Density (TSE 3078 – ASTM D 792)	1,27 g/cm <sup>3</sup>

### STORAGE AND SHELF LIFE

Store in a cold dry place. With proper storage material can be stored and used within 12 months.

### STANDARD

Conforms to the requirement of TSE 3078 – ASTM D 2240

### ADDITIONAL INFORMATION

Costarchem manufactures a complete range of construction chemical products which include:

- Concrete admixtures
- Waterproofing system
- Flooring system
- Cementitious and epoxy precision grouts
- Damp-proofing products
- Sealants and adhesives
- Repair and refurbishment systems

For more information on any of our products, please contact Costarchem global or regional office.

### LEGAL NOTE

The information and recommendations relating to the application of Costarchem products, are given in good faith based on current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with the stated recommendations in the product datasheets. Whilst Costarchem endeavors to ensure that any advice, recommendation, specification of information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products, whether or not in accordance with any advice, specification, recommendation of information given by it. The user of the product must test the product's suitability for the intended application and purpose. Costarchem reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.