



COSTAR PVC WATERSTOP

High Performance PVC Waterbar

PRODUCT DESCRIPTION

COSTAR PVC Waterstop is extruded from a high grade PVC compound which has been formulated to give excellent flexibility and longevity characteristics. They are available as straight lengths and factory produced intersections or as a factory prefabricated segment of a network to minimize site jointing.

WORKING PRINCIPLE

COSTAR PVC Waterstop is designed to provide an integral sealing system for movement and construction joints in concrete cast in-situ. These joints typically occur between the wall and floor section of structural elements.

PRIMARY BENEFITS

- A range of profiles and sizes to suit all construction requirements
- Factory made intersections to simplify and minimize on-site fabrication
- Conforms to relevant international standards
- On-site welding equipment available.
- Eyelets punched in outer flanges for easy wire tying to reinforcing bars
- Long roll lengths to reduce the amount of welding/joining on site

PRIMARY USES

COSTAR PVC Waterstops is typically used for joints which occur in the following types of structure:

Water Retaining

Sewage treatment plants, Water treatment plants, Swimming pools, Reservoirs, Dams and spillways

Water Excluding

Tunnels, Basement areas, Retaining walls, Pits, Roof slabs, Underground carparks

APPLICATION

Costar-Stop PVC Waterbar profiles are fixed generally in the middle of the slab or wall joint of the concrete structure. This profile creates a barrier to water trying either to enter or leave the structure. Its ability to withstand pressure from both sides makes Costar-Stop PVC Waterbar ideal for all water retaining and water excluding structures such as reservoirs and sewage treatment plants. The central bulb enables it to be safely used in joints where movement may occur.

Costar-Stop PVC Waterbar can be used in horizontal and vertical applications for expansion, construction and contraction joints.

It is important that all waterstops are held securely during the concrete pour and that the concrete is properly compacted to remove voids and porous areas.

Where reinforcing steel exists, sufficient space must be available to assist compaction. A series of eyelets have been formed into the outer flanges of the profile so the waterstop can be quickly wire-tied onto the neighboring steel reinforcement without the risk of water ingress due to the profile falling over.

Site Joining

On-site joining is a simple exercise using COSTAR-STOP heat welding equipment comprising of an adjustable welding jig and heating blade. The ends of the waterstop are cut square and placed into the adjustable jig.

The ends of the waterstop then slide up against the heating blade until a bead of molten PVC appears along the length of the blade. Remove the heating blade and bring the two ends together until the molten ends of the PVC fuse. When ordering welding equipment, please advise style and width of waterstop required. Full instructions are available from COSTAR Building products or your local distributor





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TECHNICAL PROPERTIES

Density	(TSE 3078– ASTM D 792)	1,27 g/cm ³
Shore A Hardness	(TSE 3078– ASTM D 2240)	75±5
Tensile Strength	(TSE 3078– ASTM D 412)	15(+) N/mm ²
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
Service Temperature		-20°C to 50°C
HS Code		3920.49.90.00 complementary

TECHNICAL PROPERTIES

Length: 15 m, 20 m or 25 m rolls are packed for types of sizes of waterstops

type	Width (cm)	15	15	15	20	20	20	20	23	23	25	25	25	25	30	30	30	30	35	50	50
A	Thickness (mm)	4	5	7	5	6	7	10	7	10	5	6	8	10	6	7	9	10	8	8	10
B	Thickness (mm)	5	7	8	10	4	5	6	7	8	10	10	5	6	8	9	10	6	8	10	
I	Thickness (mm)	3	4	5	4	5	6	8	4	5	6	8	4	5	6	7	8	6			
OL	Thickness (mm)	5	4	5	6	7	8	7	8	9	8	8	10	8	10						
M	Thickness (mm)	8	5	6	8	10	6	7	8	10											
V	Thickness (mm)	3	4	5	3	4	5	6	7	8	4										
Y	Thickness (mm)	3	4	5	3	5	6	8	4	6	8	6	8	10	4						
YO	Thickness (mm)	3	4	5	3	5	6	8	4	6	8	6	8	10	4						
YI	Thickness (mm)	3	4	5	3	5	6	8	4	6	8	6	8	10	4						
O	Thickness (mm)	3	4	5	4	5	4	5	5	5	6										
AK	Thickness (mm)	2	2.5	3	4	3	4														



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STORAGE AND SELF 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.