

TECHNICAL DATA SHEET for our *PVC-WATERSTOP*

1. DESCRIPTION : Our PVC-WATERSTOP is a product made from virgin PVC designed for use in concrete construction joints, one side of which is subject to hydrostatic pressure. The PVC-WATERSTOP is used as a barrier within the joint to prevent the passage of liquid through or across the joint. It is embedded in the concrete on both sides of the joint, spanning the joint. It is designed to accommodate lateral and transverse movements that cause the joints to open or close or misalign.

2. USES : Our PVC-WATERSTOP is designed to stop the flow of liquids through or across the joints in concrete construction, if properly installed. Some of the structures requiring PVC-WATERSTOP include SWIMMING POOLS, STORAGE TANKS, ROOF AND FLOOR SLABS, PARKING DECKS, BRIDGE DECKS AND ABUTMENTS, FOUNDATIONS, BASEMENTS, RETAINING WALLS, DAMS, LOCKS, SEWAGE AND WATER TREATMENT PLANTS, WATER RESERVOIR, CANAL, CULVERTS, TUNNELS, ELEVATOR PITS, AND all concrete structure requiring tight joints.

3. COMPOSITION & MATERIAL : Our PVC-WATERSTOP is extruded from an elastomeric plastic compound consisting of virgin polyvinyl chloride and additional resins, plasticizers, stabilizers, lubricants and fillers to meet or exceed the requirement and performance criteria of **IS:12200 of 2002 & IS:15058 of 2002 Specifications** its Relevant Part **IS:8543**(Method of Testing). It is chemically inert, contains no material leachable by water, and is **HIGHLY RESISTANT TO ACIDS AND ALKALIS, OIL, OZONE AND OXYGEN, AND TO WATER-BORNE CHEMICALS, FUNGUS RESISTANT, It will NOT FATIGUE WITH REPATED FLEXING, AND RETAINS ITS STRENGTH & ELASTICITY** through a temperature range from as low as -35°F (-37°C) to a high of +175°F (+79.3°C).

4. TECHNICAL DATA :

Sr No	TEST (Testing Method as per IS: 8543)	Required As per IS:12200 Of 2002	Required As per IS:15058 of 2002	Required As per ASTM	OBSERVED VALUE OF OUR PVC-WATERSTOP
1.	Tensile Strength (Kg/Cm²)	138.0 min.	138.0 min.	122.50 min.	150.00
2.	Ultimate Elongation (%)	285.0 min.	285.0 min.	350.00 min.	361.00
3.	Tear Resistance (Kg/Cm²)	49.0 min.	49.0 min.	19.25 min.	62.00
4.	Hardness (Shore A)	65.0 min.	65.0 min.	65.00 min.	72.00
5.	Water Absorption (%)	0.6 max.	0.6 max.	N.A.	00.03
6.	Cold Bend Test at -25°C	No Cracking	No Cracking	N.A.	No Cracking
7.	Accelerated Extraction at 14th Day				
	a) Tensile Strength (Kg/Cm ²)	103.0 min.	103.0 min.	105.0 min.	152.00
	b) Ultimate Elongation (%)	280.0 min.	280.0 min.	250.0 min.	285.00
8.	Stability Effect of Alkali				
	a) Weight Increase at 7 th day (%)	0.25 max.	0.25 max.	0.25 max.	0.13
	b) Weight Decrease at 7 th day (%)	0.10 max.	0.10 max.	0.10 max.	-
	c) Change in Hardness at 7 day	± 5	± 5	± 5	+ 2
	d) Weight Increase at 28 th day (%)	0.40 max.	0.40 max.	0.40 max.	0.19
	e) Weight Decrease at 28 th day (%)	0.30 max.	0.30 max.	0.30 max.	-
	f) Dimension Change (%)	± 1	± 1	± 1	+ 0.39

► **Tolerance:** Permissible to tolerance on **Width ± 10mm** & on **Thickness + 2mm / -0mm** as per IS:15058