

## TECHNICAL DATA

# PVC WATERSTOP

A Waterstop is usually a section of flexible waterproof material placed at any joint in concrete to prevent the passage of water by sealing contraction and expansion joints. PVC WATERSTOPS are made of high grade flexible Poly Vinyl Chloride.

Joints in concrete structure, on one side of which is subject to hydrostatic load, are generally provided with waterstop bridging joints and embedded in concrete on either side. In concrete joints where expansion and contraction cause the joints to close and open, the PVC WATERSTOP designed to accommodate itself to movement. PVC WATERSTOPS are known for their superior performance in withstanding shear movements and to resisting hydrostatic pressure.

### TYPICAL USES

Sewer plants, water filtration plants, aqueducts, reservoir, tanks, channels, swimming pools, culverts, tunnels, underpasses, bridge decks and abutments, roofs, dams, foundations, mineshafts, retaining walls and any concrete structure requiring watertight joints.

### ASSOCIATION STANDARDS

Nuclear Standards: Waterstops that conform to the quality material and conditions of service (seismic movement, hydrostatic head and radiation dosage) standards set forth by the U.S. Atomic Energy Commission, Nuclear Regulatory Commission and the Nuclear Power Plant Contractors. PVC Waterstops are currently being installed at numerous nuclear power plants

Physical Property	ASTM test Method	PVC WATERSTOPS
Tensile Strength, min (PSI)	ASTM D 412-02	2250*
Minimum Elongation, min (%)	ASTM D 638	379
Hardness, Shore A	ASTM D 2240	65 to 80%
Tensile Stress	ASTM D 638	13.89MPa
Water Absorption, %	ASTM D570	negligible
Compression Set, max % after 24 hours at 158 degrees F.	ASTM D395-02 Method B	30
Tensile Strength after aging, min % of original after 7 days in air at 158 degrees +/- 2 degrees F, and 300 PSI	ASTM D572-99	80
Specific Gravity	ASTM D792	1.17 +/- 0.3



## TECHNICAL DATA

### INSTALLATION:

Waterstop is joined by fusion (hot melt). First, cut the waterstop ends at right angle. Aligned, hold in place using alignment plates and fixtures, heated using hot air gun and press together to form a butt joint to get a continuous barrier.

Installation of Waterstop involves split forms. In the first pour the waterstop is held in place with blocks or other suitable arrangements on the outside of the split form (away from the concrete which is to be poured).

After the first pour has set up, the split forms and block are removed. When the adjoining pour is made, care should be taken to support the waterstop

### SAFETY PRECAUTIONS

It is recommended that to provide enough ventilation while heating the edges to make the butt joints. Use eye and face protection masks.

### WARRANTY:

**ORGANIX will** replace any unused waterstop materials which prove defective in workmanship or material within one year from date of delivery to buyer.

Because we cannot anticipate or control the many different conditions under which this information and our products may be used, we do not guarantee the applicability or accuracy of this information or the suitability of our products in any given situation. Users of our products should make their own tests to determine the suitability of each such product for their particular purposes. The products discussed without warranty, either expressed or implied, and buyer assumes all responsibility for loss or damage arising from the handling and use of our products, whether done in accordance with directions or not. Also, statements concerning the possible use of our products in the infringement of any patent

### AVAILABILITY

PVC waterstops are available in standard roll of 15 m length and can be made in different colors.

If required, WATERSTOPS can be produced in EPDM, SBR

### TECHNICAL SERVICES:

Complete technical services are available. Use the toll free number for any technical concerns or needs from the available technical staff at **ORGANIX**.

