

Unitech Waterstop



UNITECH
for Building & Construction Materials
www.unitech-ikk.com

Product Name:

Unitech waterstop - A Polyvinyl Chloride (PVC) WaterStop.

PRODUCT DESCRIPTION

Composition and Materials:

Unitech waterstop is a specially formulated Polyvinyl Chloride (PVC) compound. Flexible, resilient, tough, chemically inert, not affected by weathering, low temperature, or constant immersion in water. It will withstand rough treatment during installation, yet is relatively easy to install and splice.

Unitech waterstop is unaffected by concrete additives and most water solutions of organic chemicals. It has the ability to accommodate joint movements and at the same time prevent water passage through the joints.

Basic Use:

Unitech waterstop is designed for use in any concrete structure which contains joints and is subjected to a hydrostatic load on one face of the structure. It prevents water movement through concrete joints in water reservoirs, canals, dams, sewage treatment plants, bridges, stadiums, basements, floor slabs, parking garages, and similar structures.

Interior expansion joint:

Used in the concrete seals to allow movement and petting.

Exterior expansion joint:

For expansion joint in concrete under the sole plate.

Color: Navy blue.

Technical Data:

Unitech waterstop is unaffected by alkalis, acids, hydrocarbons, oxidation, sewerage, and most water solutions of organic chemicals. It is extremely resistant to abrasion, corrosion, and aging.

For physical properties see Table 1.



Splicing:

Unitech waterstop may be butt-spliced on the job, with an electrical splicing blade. No skilled labor is required. There is no crimping, shaping, brazing, or vulcanizing necessary.

Unitech waterstop:

1. Will be free of defects in material and workmanship.
2. Will not become brittle or crack due to normal exposure.
3. Will not undergo a significant change in Shore A-hardness in normal water control applications when measured in accordance with ASTM Standard Tests.
4. Will resist normal abrasion and tear failures.
5. Will not fail under normal expansion and contraction in joints where the waterstop has been installed with proper configuration and joint design. configuration and joint design.

Unitech waterstop Fittings:

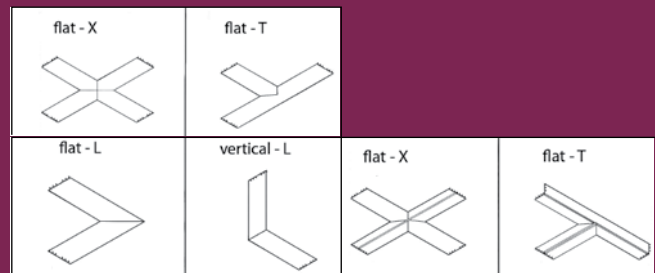


Table 1- Technical Data:

Properties	Test Method	Nominal Values
Specific Gravity	ASTM D 792	1.4±0.1 g/cm ³
Tensile Strength	ASTM D 638 DIN 53455	13.7±1 MPa 13.7 N/mm ²
Ultimate Elongation	ASTM D 638 DIN 53455	300 % 300 %
Hardness-Shore - A	ASTM D 2240 DIN 53505	75±5 75±5
Stiffness in Flexure	ASTM D 747	4.14 MPa 4.14 N/mm ²
Tear Resistance	ASTM D 624	285 lb/in.min 50 KN/m
Water Absorption - 24 hours - 48 hours	ASTM 570 ASTM 570	0.082% 0.320%
Resistance to Chemicals		Excellent to inorganic solutions:salts, hydrocarbons, acids, and alkalis

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Precautions:

- Don't drive nails through inside ridges of waterstop when fixing externally on formwork.
- Never lap waterstop. All joints should be sealed with a heat sealing method.

- Do not embed center bulb in concrete. It should be positioned in the center of the joint to ensure freedom of movement.

Expansion Joints	Construction Joints
<p>Internal Fix / Ribbed with center Bulb</p> <p>I - X150</p>	<p>Internal Fix / Ribbed</p> <p>I - C150</p>
<p>I - X200</p>	<p>I - C200</p>
<p>I - X250</p>	<p>I - C250</p>
<p>External Fix</p> <p>II - X150</p>	<p>External Fix</p> <p>II - C150</p>
<p>II - X200</p>	<p>II - C200</p>
<p>II - X250</p>	<p>II - C250</p>
<p>II - X300</p>	

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