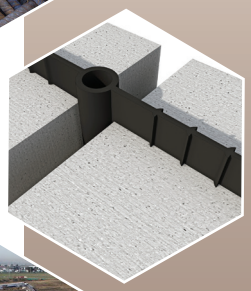
AquaShield 350

PVC Waterstop

AQUASHIELD PVC 350 Waterstop is a product designed for use in concrete construction containing joints, one side of which is subject to hydrostatic pressure. AQUASHIELD 350 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, and spans the joint. It is designed to accommodate lateral and transverse movement which can cause a joint to open, close or misalign. Embedded in concrete, across and or along the joint, water stops form a watertight diaphragm that prevents the passage of fluid through the joint. AQUASHIELD 350 waterstops meet or exceed the standards of the most stringent specifications, including the U.S. Army Corps of Engineers CRD-C 572-74.









Features

- Flexible but firm, Extreme weather resistant.
- Withstand very low temperature to high.
- Chemical resistant, saline solutions and sewage in general
- Withstanding shear movements and to resisting hydrostatic pressure.
- Excellent and long lasting plasticity.

Application Field

- Construction joints in foundation slabs or below grade walls
- Supporting walls, steel H-piles, and other penetrations
- New-to-existing concrete work
- Septic tanks, sanitary and storm sewer manholes
- Tunnels and metro constructions.
- Dams, locks, canals and water reservoirs.

Physical Properties

Properties	Standard /Test method	AQUASHIELD 350
Width	CRD-C572-74	350 mm
Thickness	CRD-C572-74	5mm
Tensile Strength	ASTM D638-10	≥14 Mpa
Elongation at break	ASTM D638-10	355 %
Tear Resistance	ASTM D624-00(2012)	≥40
Water Absorption	ASTM D570-98 (2010) e1	≤ 0.02 %
Specific Gravity	ASTM D792-08	≤1.40 g/cm³
Durometer Hardness	ASTM D2240-05 (2010)	75 Shore A
Stiffness in Flexure	ASTM D747-10	5.0 Mpa
Cold Brittleness	ASTM -746-07	-37°C

Properties -Accelerated Extraction Test

Properties	Standard /Test method	AQUASHIELD 350
Tensile Strength	CRD-C74-572	≥14 Mpa
Elongation at break	CRD-C74-572	355 %

Stability in effect of Alkalis Test

Properties	Standard /Test method	AQUASHIELD 350
Change in weight after 7 days	ASTM D06-543	0.10 %
Change in hardness at 7 days	ASTM D06-543	1+ Shore-A

engineered to perform

Installation

Water stop is joined by fusion (hot melt). First, cut the water stop ends at right angle. Aligned, hold in place using alignment plates and fixtures, heated using hot air gun (350 of) and press together to form a butt joint to get a continuous barrier. Installation of Water stop involves split forms. In the first pour the water stop is held in place with blocks or other suitable arrangements on the outside of the split form (away from the concrete which is to he 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 water stop

Profile - Application Field	Product Name
Centrally Placed for construction joints 	AQUASHIELD 350CC
Centrally Placed for expansion Joints 	AQUASHIELD 350CE
Externally placed for construction joints 	AQUASHIELD 350EC
Externally Placed for expansion joints 	AQUASHIELD 350EE

Availability : AQUASHIELD 350 PVC water stops are available in standard roll of 15 m length

Storage And Shelf Life : The product will last 60 months from the date of production if stored in its original and sealed packages, in a dry and covered place and with temperatures not exceeding 55°C. They need to be protected from UV rays

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

Precautions : Store PVC water stops under tarps or indoors to avoid direct exposure to sunlight. PVC can suffer UV degradation from the sun. Extended UV exposure will leach the plasticizer from the PVC, reducing its physical properties and causing the PVC to become brittle. Protect installed water stops from UV if the pour of concrete will be delayed more than 30 days.

engineered to perform

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