NanoWaterstops PVC

Flexible PVC Waterstops

Description

NanoWaterstops PVC are high grade PVC extrusion formulated to meet the highest performance specifications. NanoWaterstops PVC are supplied as straight lengths along with factory fabricated junction pieces to simplify layouts and site jointing.

Uses

Embedded in concrete, across and/or along the joint, waterstops form a watertight diaphragm that prevents the passage of fluid through the joint.

Water retaining:

- Tanks, reservoirs and sewerage plants
- Swimming pools
- Elevated water towers
- Oil storage tank bond walls
- Culverts, canals and dams

Water excluding:

- Basements
- Underground car parks
- Buried storage tanks
- Retaining walls
- Bridge abutments
- Tunnels and subways

Advantages

- Unique design
- Full range of profiles
- Full range of factory fabricated junctions
- Continuous 4 valve network
- Reinforced edge flange with brass eyelets on internal sections for secure fixing
- Easy jointing system
- Approved for use in contact with potable water

Standards compliance

Complies with US Corps of Engineers Specification CRD-C-572 and BS2571
ASTM D-412 & ASTM D-638.

Properties

Density	1.30 ± 0.01 kg/L
Chemical Base	Polyvinyl Chloride
Service Temperature	- 30°C to + 55°C
Tensile Strength	≥ 10 N/mm2 (DIN 53455)
	≥ 12.17 N/mm2(CRD-C 573, ASTM D412)
	≥ 11 N/mm2 (BS 2782 M320A)
Tear Strength	≥12 N/mm2 (DIN 53507 A)
Shore A Hardness	90 ± 5 (DIN 53505)
Elongation at Break	> 300 % (DIN 53455)
	> 300 % (CRD-C 573, ASTM D412)
	> 300 % (BS 2782 M320A)
Chemical Resistance:	Water, seawater, sewage, road salt solutions.
Temporarily:	Diluted inorganic alkalis, mineral acids and mineral oils.
Alkali Resistance	Passed. CRD-C 572-65

Packaging

100 Rft Roll

Storage

Store in dry and cool place below 35°C. Protect from direct sunlight.

Instruction for use

Welding Temperature ~ 200°C.

Selection

The selection of a suitable NanoWaterstops PVC is governed by the type of joint, concrete thickness, grade of concrete, reinforcement position, expected movement (expansion/shear) as well as water head to which it is to be exposed.

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General Guide lines:
Experience has shown that application of a few simple rules will ensure a good result.
satisfactory result:
The overall width of the NanoWaterstops PVC should be at little less or equal to the thickness of the concrete slab into which it is placed.
The overall width of the NanoWaterstops PVC should be at least six times the size of the largest aggregate used.
Installation/Fixation:
Centrally Placed NanoWaterstops PVC:
Installation in the centre of the concrete structures. Easy anchoring of Nano Vision NanoWaterstops PVC to reinforcement with special fixing clips (5 pieces per m).
Surface NanoWaterstops PVC:
Installation on the surface of the formwork or on the surface of the base/drylean concrete.
Joint Finishing Types:
Installation by pushing onto the formwork or onto the joint lining. Proper fixing of the NanoWaterstops PVCs to the reinforcement (or formwork) is essential, as are the careful pouring and compaction of the concrete. Fixing clips for internally placed NanoWaterstops PVC are available.
Welding:
NanoWaterstops PVC are made from virgin thermoplastic PVC and can therefore be welded easily. The ends are secured in a welding jig (available for each type) and heated with suitable welding equipment (also available), until an even, molten bead of PVC appears. The welding equipment is then removed and the molten ends pressed together firmly.
Junction Pieces:.
Junction pieces can easily be manufactured on site. However, a wide range of standardized, factory made junction pieces, are available. All having a 30 cm free wing allowing easy butt-welding at site. For non standard junction pieces drawings must be provided, giving exact details required.

Precautions /limitations

Welding should take place in ventilated area or while wearing an oxygn mask.