

Composite PVC and hydrophilic waterstop system for dual watertight security

Uses

Supercast Twinstop has been specially designed to provide significant advantages over co-extruded hydrophilic waterstops. This enables the PVC waterstop to be fixed on site in the usual way and provides the additional benefit of two hydrophilic elements treated with a retarded swell coating, thus avoiding the common problem of hydrophilic pre-swell on site.

Advantages

- Hydrophilic elements are treated with a delay swell coating to avoid problems associated with hydrophilic pre-swell
- WRc approval for use in contact with potable water
- Fully continuous four-bulbed network
- Complete integration with existing PVC
- Patented, reinforced eyelet edge flanges for positive fixing
- Cost-effective alternative to co-extruded waterstops
- Range of fabricated intersection pieces
- Hydrophilic elements have been designed into the system in the optimum position
- Can be used in situations where salt water, sewage, agricultural silage, oil, diesel and petrol are prevalent
- Tolerant of site conditions — if damage does occur to hydrophilic elements, they can simply be removed and replacements slotted in

Standards compliance

Supercast Twinstop is suitable for use in contact with potable water and is a Water Regulations Advisory Service approved product.

Supercast PVC waterstops are made from extruded plasticised PVC compound which meets the US Corps of Engineers specification CRD-C 572-74. When tested to BS 2782 at 25°C, it has a tensile strength in excess of 14 MN/m² and an elongation at break in excess of 300%.

Description

Supercast Twinstop has been designed to combine the latest developments in hydrophilic technology with the traditional benefits of Supercast PVC waterstops.

Supercast Twinstop is available in two forms based on:

- a centrally placed profile: Supercast Hydrofoil TS 250mm
- an externally placed profile: Supercast Rearguard TS 250 mm

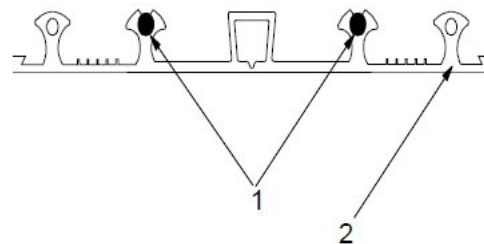
Supercast PVC waterstops are extruded from a high-grade PVC compound which has been formulated to give excellent flexibility and longevity characteristics. Profiles are available as straight lengths and factory produced intersections or as a factory produced prefabricated segment of a network to minimise site jointing.

Technical support

Fosroc offers a comprehensive range of high performance, high quality construction products. In addition, Fosroc offers a technical support service to specifiers, end-users and contractors, as well as on-site technical assistance in locations all over the world.

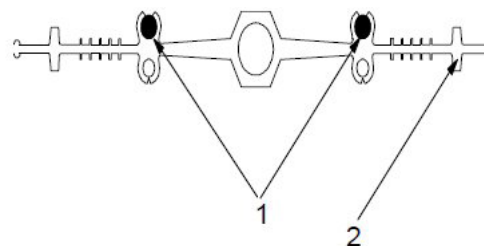
Design criteria

Supercast Rearguard TS 250 mm



- 1 Supercast SW TS hydrophilic elements
- 2 Supercast PVC waterstop

Supercast Hydrofoil TS 250 mm



- 1 Supercast SW TS hydrophilic elements
- 2 Supercast PVC waterstop

Properties

Form:	Composite PVC hydrophilic waterstop
Colour:	Blue/red
Tensile strength at 25°C: BS 2782	Minimum 14 MN/m ²
Elongation at break at 25°C: BS 2782	Minimum 300%



Fosroc® Supercast Twinstop

Application instructions

Installation

Waterstops must be installed so that they are securely held in their correct position while the concrete is being placed. Concrete must be fully compacted around the waterstops to ensure that no voids or porous areas remain. Where reinforcement is present, an adequate clearance must be left to permit proper compaction.

Supercast Rearguard TS 250 mm

When used on ground slabs where the waterstop is supported on blinding, the Rearguard profile usually requires no fixing. Lay the waterstop centrally over the line of the joint to be formed. Fixing to vertical shuttering is done by nailing through the outer nailing flanges leaving the head of the nail proud so that it is held in the cured concrete. This prevents the waterstop being displaced when the shuttering is struck.

Supercast Hydrofoil TS 250 mm

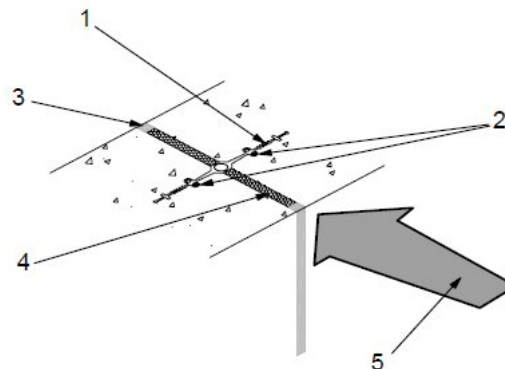
The brass eyelets used for securing the waterstop are located outside the edge bulbs so as not to create waterpaths around the profile. The Hydrofoil profile should be positioned with the hydrophilic inserts on the water facing side.

Notes

Care should be taken to ensure that the hydrophilic inserts are not exposed to excessive rain or puddling before the concrete pour. If this does happen and damage does occur to the hydrophilic element, the damaged hydrophilic can simply be removed and a replacement tooled in.

Concrete should never be poured onto a pre-activated hydrophilic strip.

Example of Supercast Twinstop System



- 1 Supercast Twinstop waterstop
 - 2 Supercast SW TS hydrophilic insert on side facing water
 - 3 *Thioflex 600 joint sealant
 - 4 *Hydrocell XL filler board
 - 5 Water face
- * Also available from Fosroc.

Storage

Store in original unopened packaging, in cool dry conditions, away from sunlight.

Precautions

Health and safety

Hot weld site jointing of PVC waterstops liberates hydrogen chloride mist and vapour. If welding is carried out after the hydrophilic insert has been positioned, some rubber fume may be evolved. Ensure adequate ventilation. If working in still air or confined spaces, provide forced ventilation or suitable respiratory protective equipment.

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