



Hydrostop WS10

Expansive Hydrophilic Waterstop

DESCRIPTION

HYDROSTOP WS10 is a swellable hydrophilic waterstop, made from a combination of an elastomer and a hydrophilic resin. When it is installed in a confined joint it will swell upon contact with water to ensure a waterproof joint is created. Expansion of the waterstop creates a positive pressure against the faces of the concrete creating a joint that is resistant to hydraulic pressure. Hydrostop WS10 has a swelling capacity of up to 200% of its original volume. The composition of the product creates a delayed initial swelling and makes Hydrostop WS10 suitable for use in insitu concrete applications.

TYPICAL PROPERTIES

Property	Value
Colour	Black
Swelling Ratio	> 200%
Tensile Strength	1.5 MPa
Density	1.2 Kg/dm ³
Hardness Shore A	50
Elongation at Break	220%
Service Temperature	-50°C - 75°C
Dimensions	5 mm x 20 mm

USES

Hydrostop WS is used for the integral sealing of horizontal and vertical construction joints in fresh concrete. It may also be used for sealing joints between precast concrete elements, sealing pipe penetrations and sealing concrete to steel joints. It may be used in the place of conventional PVC waterbars as an effective method of preventing passage of water at construction joints. Hydrostop WS10 may be used in conjunction with the Hydrostop PVC range of waterbars to maintain continuity in complex watertight structures.

ADVANTAGES

- Swelling capacity of up to three times the original volume when in contact with water
- Easily installed by semi-skilled labour adapting to complex joint shapes
- Its composition creates a delayed initial swelling protecting from premature swelling when installed in wet conditions
- Reversible swelling in case of wet-dry cycles with fast renewed swelling after the first cycle
- May be used in conjunction with Hydrostop PVC waterbars
- Used in conjunction with Hydrostop WSM, a gun-applied hydrophilic mastic for detailing purposes and linking into PVC Waterbars so as to maintain integrity



PROCEDURE

Surface Preparation: Ensure the substrate to which the Hydrostop WS10 is to be applied is clean, dry, free from oils, dust and laitance etc. The surface should be smooth and free from excessive surface undulation.

Application in Cast Insitu Concrete: Hydrostop WS10 may be nailed to hardened concrete at 200 mm centres. Ensure the strip is pulled tight to ensure complete contact with the concrete. Alternatively Hydrostop Adhesive may be used to bond the waterstop to the concrete. On irregular surfaces the strip should be adhered to the concrete using Hydrostop WSM to ensure complete integrity of the joint. Apply a 10mm bead to the face of the concrete and press the waterstop firmly onto the bead ensuring complete contact with the mastic. Roll ends are butted together to ensure complete watertight seal is created, do not overlap. Allow the adhesive to cure overnight before subsequent concrete pours.

Application to Precast Concrete Elements: Hydrostop WS10 should be applied centrally in the preformed rebate. Apply Hydrostop Adhesive to the face of the concrete and press the pre-cut Waterstop firmly onto the adhesive taking care to ensure the strip is fully in contact with the concrete. Roll ends are butted together to ensure a complete

watertight seal is created, do not overlap. Allow the adhesive to cure overnight before bringing into contact with the adjoining section.

PACKAGING

Hydrostop WS10 is supplied in a 15 M roll.

Hydrostop WSM is supplied in 600 ml sachets.

Hydrostop Adhesive is supplied in 600 ml sachets.

STORAGE

Store Hydrostop products in original packaging in cool dry conditions.

LIMITATIONS

Hydrostop WS10 should not be installed in expansion joints. Where Hydrostop WS10 is likely to come into contact with contaminated water please contact Premcrete Technical Department.

HEALTH AND SAFETY

Please refer to separate Material Safety Datasheet.

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