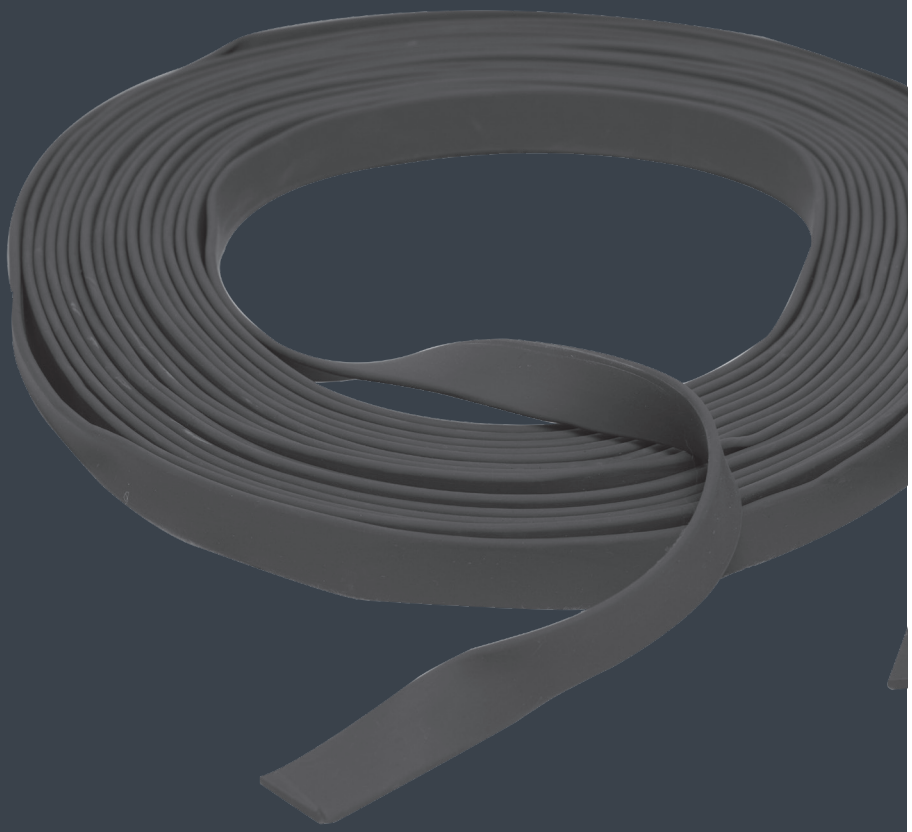
TECHNICAL DATA SHEET

HYDROSTOP WS10

Penetration Sealing System



PREMCRETE

HYDROSTOP WS10





TYPE B
WATERBAR SYSTEM

WATER RESISTANT

25 YEARS
PRODUCT WARRANTY

DESCRIPTION

HYDROSTOP WS10 is swellable hydrophilic waterstop which will swell upon contact with water. When installed into a confined joint the expansion of the waterstop exerts a positive pressure against both faces of the concrete to achieve a watertight seal which is resistant to hydrostatic pressure. HYDROSTOP WS10 will swell up to 200% which makes it particularly suitable for sealing smaller sections of concrete. The installed waterstop has a delayed initial swell which prevents premature swell.

USES

HYDROSTOP WS10 is designed for use in both horizontal and vertical construction joints in cast in-situ concrete. It may also be used for the sealing of joints between pre-cast elements however care should be taken to ensure that the waterstop is in proper contact with the concrete elements. HYDROSTOP WS10 is used for sealing construction joints where resistance to hydrostatic water pressure is required to achieve a watertight structure. Such applications include, basement construction, culverts, tunnels, retaining walls, lift pits and other water resisting structures.

ADVANTAGES

- Easy application to complex shapes, due to small dimension.
- Good swell capacity upon contact with water.
- Delayed swell composition.
- Suitable for use in conjunction with HYDROBAR PVC waterstops.
- Design life at least equal to that of the structure where it is incorporated.

HYDROSTOP WS10

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value
Colour	N/A	Grey
Swell Ratio	N/A	200%
Tensile Strength	N/A	1.45MPa
Density	N/A	1205kg/m³
Hardness Shore A	N/A	45
Elongation at Break	N/A	200%
Service Temperature	N/A	-30°C to +60°C

INSTALLATION PROCEDURE

Surface Preparation

The substrate to which the HYDROSTOP WS10 is to be applied, should be clean, dry and free from deleterious materials. The surface should be smooth and free from excessive surface undulation. Installation during heavy rain is not recommended as this may cause premature activation of the waterstop. The surface of the joint should be scabbled prior to the application of the waterstop.

Application

HYDROSTOP WS10 should be applied to the substrate using HYDROSTOP WSM as an adhesive. Apply a 10mm bead to the concrete and press the waterstop firmly into the HYDROSTOP WSM ensuring complete contact with the adhesive. HYDROSTOP WS10 should be nailed at 300mm centres using HYDROSTOP RETAINING PINS. Adjacent strips of HYDROSTOP WS10 should be parallel lapped by 75mm to ensure a complete seal is achieved. Internal and external corners should be formed by cutting the HYDROSTOP WS10 and butt jointing. Do not bend the HYDROSTOP WS10 around corners, as this will affect the integrity of the seal achieved. Allow the HYDROSTOP WSM adhesive to cure overnight before subsequent concrete pour. It is important to ensure that the HYDROSTOP WS10 is positioned so that there is at least 50mm concrete cover. The installed HYDROSTOP WS10 should be protected from rain damage until the concrete is placed. It is extremely important that when the concrete is placed it is well compacted around the waterstop, as any voids will allow the water to track around the installed waterstop.

Limitations

HYDROSTOP WS10 should not be installed in movement or expansion joints.

PACKAGING & COVERAGE

Pack size

3mm x 20mm x 12m roll.

STORAGE & SHELF LIFE

It is important to ensure that HYDROSTOP WS10 is protected from wet conditions when stored in unopened containers. It will have a shelf life in excess of 1 year.

HEALTH & SAFETY

See separate Material Safety Data Sheet.

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PREMCRETE