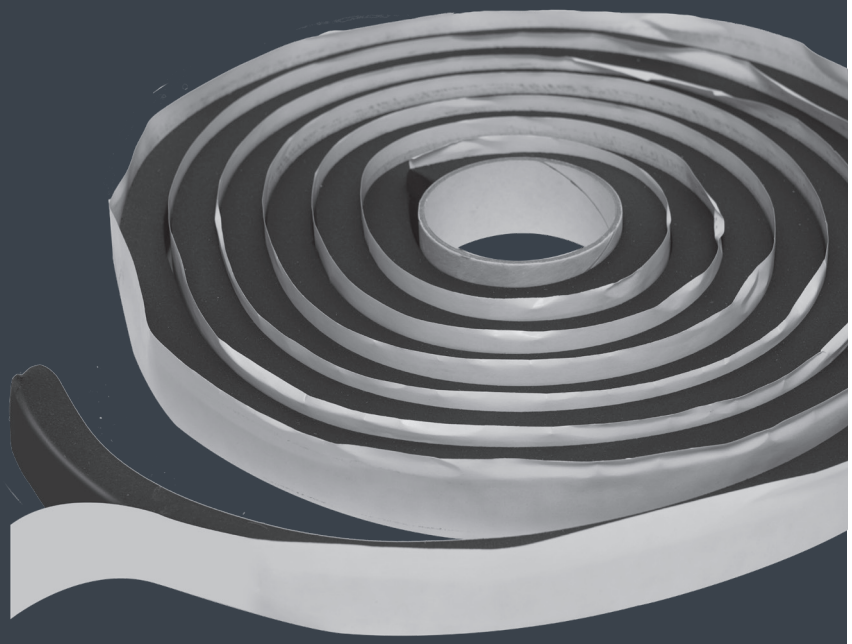
TECHNICAL DATA SHEET

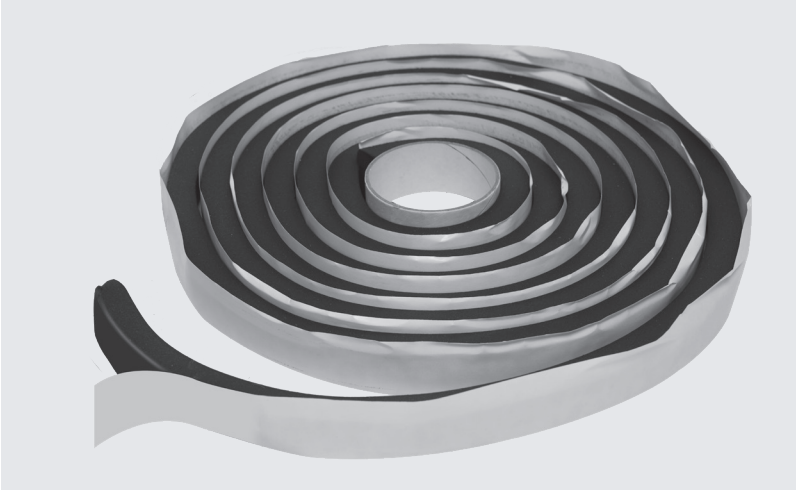
HYDROSTOP BR



Hydrophilic Rubber Waterstop

PREMCRETE

HYDROSTOP BR





TYPE B
WATERBAR SYSTEM

WATER RESISTANT

UK CA
UK CONFORMITY

25 YEARS
PRODUCT WARRANTY

BBA
BBA CERTIFICATE

DESCRIPTION

HYDROSTOP BR is a hydrophilic synthetic rubber waterstop with a sodium bentonite component. It is designed to swell when in contact with water to provide an effective watertight seal in construction joints in concrete. Expansion of the waterstop creates positive pressure against the faces of the construction joint in cast in-situ concrete, creating a joint which is resistant to hydrostatic pressure. HYDROSTOP BR has a swelling capacity in excess of 400% of its original size. The sodium bentonite component provides extra protection. The expansive clay will penetrate and effectively seal any shrinkage cracks that may form in concrete.

USES

HYDROSTOP BR is used for the integral sealing of both horizontal and vertical construction joints in cast in-situ concrete. It is also suitable for sealing around pipe penetrations and other components where an active seal against water ingress is required. It may be used in the place of conventional PVC water bars as an effective method of preventing the passage of water at construction joints. Structures include basements, tunnels, culverts, swimming pools, lift pits, retaining walls and other structures which require resistance to water. It should not be used for the sealing of movement or expansion joints.

ADVANTAGES

- Provides an active seal to construction joints for the lifetime of the structure.
- Swells by 400% when in contact with water.
- Sodium bentonite component will fill small cracks and fissures.
- Easy installed by semi-skilled labour.
- Easily installed to form complex joint shapes.
- Design life at least equal to that of the structure where it is incorporated

HYDROSTOP BR

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value
Colour	N/A	Black
Swelling Ratio	N/A	> 400%
Confined swell pressure to a BBA test method	N/A	7.9 bar after 25 days
Density	N/A	1.58kg/dm^3
Weight	N/A	0.79kg/m
Installation Temperature	N/A	-10^{0}C to 50^{0}C
Dimensions	N/A	25mm x 20mm

INSTALLATION PROCEDURE

Surface Preparation

The substrate to which the HYDROSTOP BR 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 or prepared by jet-washing if the substrate has received a top-face retarder, prior to the application of the waterstop.

Application

HYDROSTOP BR should be applied to the substrate using HYDROSTOP WSM as an adhesive. Apply HYDROSTOP WSM as a sufficient size bead to the concrete to achieve a 3 x 25mm application under the HYDROSTOP BR and ensure complete contact with the adhesive. Based on this coverage each unit of HYDROSTOP WSM will cover 8 metres. HYDROSTOP BR should be nailed at 300mm centres using HYDROSTOP RETAINING PINS.

Adjacent strips of HYDROSTOP BR should be parallel lapped by 100mm to ensure a complete seal is achieved. Internal and external corners should be formed by cutting the HYDROSTOP BR and butt jointing. Do not bend the HYDROSTOP BR around 90^0 internal and external corners, as this will affect the integrity of the seal achieved. It can however be installed around a corner when placed on a flat surface such as around the top of a liftpit. Allow the HYDROSTOP WSM adhesive to cure overnight before subsequent concrete pour.

It is important to ensure that HYDROSTOP BR is positioned so that there is at least 75mm concrete cover.The installed HYDROSTOP BR 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.

PACKAGING & COVERAGE

Pack size

6 rolls of 5l/m per box.



STORAGE & SHELF LIFE

HYDROSTOP BR should be stored in dry cool conditions. When stored in good condition the product has a shelf life in excess of 24 months.

HEALTH & SAFETY

See separate Material Safety Data Sheet.

BBA APPROVAL INSPECTION TESTING CERTIFICATION
15/5265

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PREMCRETE