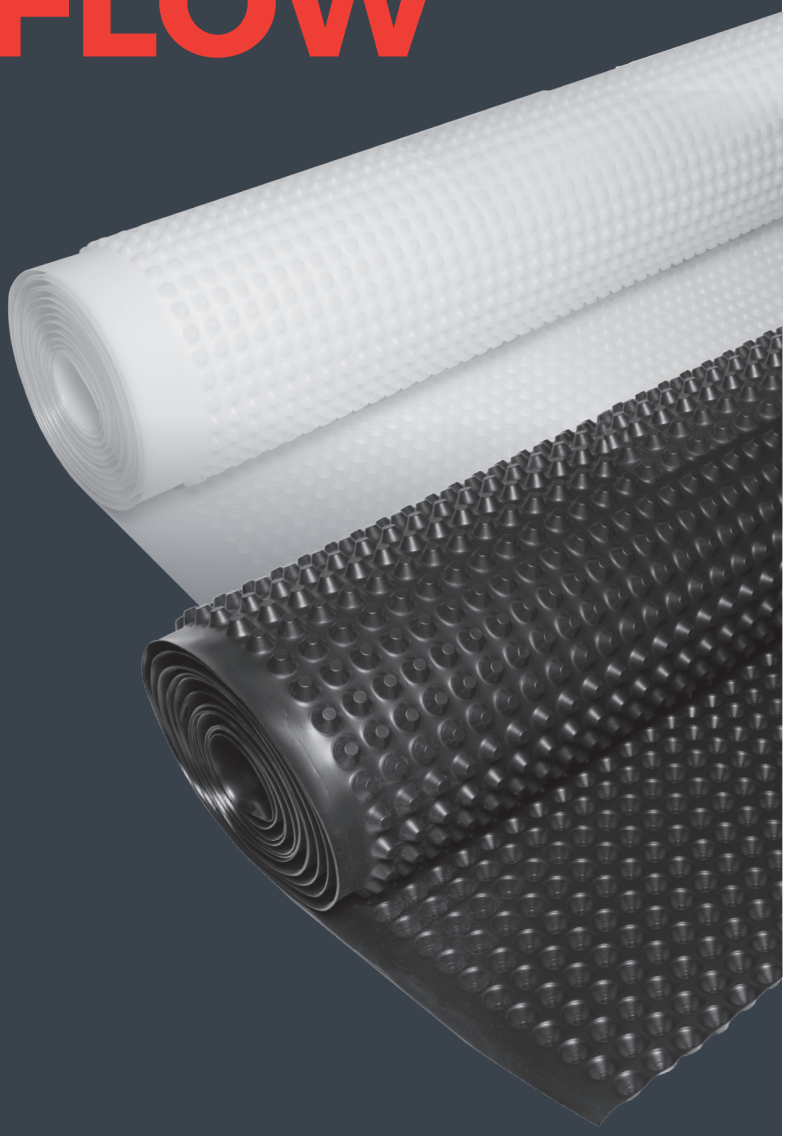
TECHNICAL DATA SHEET

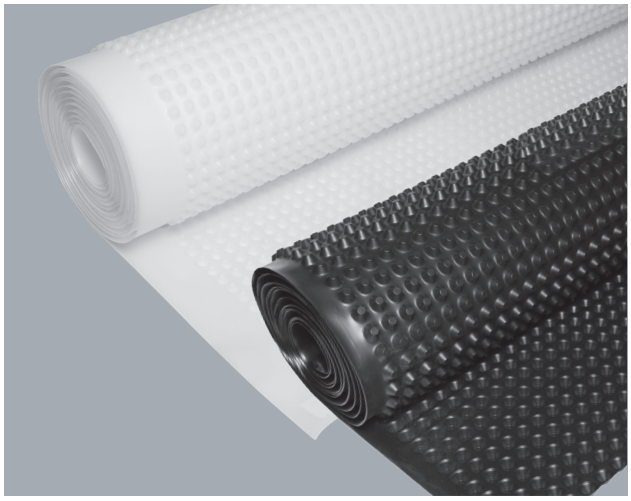
HYDROFLOW HP



Cavity Drain Membrane System 8mm & 20mm

PREMCRETE

HYDROFLOW HP





TYPE C
DRAINAGE MEMBRANE

WATER RESISTANT

UK CA
UK CONFORMITY

25 YEARS
PRODUCT WARRANTY

BBA
BBA CERTIFICATE

DESCRIPTION

HYDROFLOW HP is a cuspated HDPE drainage membrane suitable for installation on internal walls and floors. It is designed to provide a free-draining void for the collection and control of water that permeates through a concrete or masonry sub-structure. The void created by the cuspated sheet allows the water to free flow to a drainage channel or sump. HYDROFLOW HP is available in two thicknesses. The 8mm thick membrane is typically used for application to vertical substrates or for the control of light water ingress. The 20mm membrane is typically used for application to horizontal or floor constructions or where the control of higher volumes of water ingress is a consideration.

USES

HYDROFLOW HP is used to control water ingress and create a Grade 3 environment in accordance with BS 8102:2022. Structures include habitable basements, carparks, tunnels and vaults.

ADVANTAGES

- Rapid and easy installation to concrete and masonry substrates.
- Minimal surface preparation required prior to installation.
- High compressive loading stability.
- Effective method of creating entirely dry conditions in high risk areas.

HYDROFLOW HP

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value
Cuspate Depth	N/A	HP8 - 8mm HP20 - 20mm
Mass	N/A	HP8 - 500g/M^2 HP20 - 1 Kg/M^2
Compressive Strength	N/A	HP8 - 180 kN/M^2 HP20 - 170 kN/M^2
Drainage Volume	N/A	HP8 - 5.3 ltr/M^2 HP20 - 14 ltr/M

INSTALLATION PROCEDURE

Surface Preparation

Ensure the substrate is free from excessive surface undulation and if required carry out repairs using a suitable PREMCRETE REPAIR MORTAR. All substrates with the use of HYDROSEAL SEALER to prevent the build-up of lime deposits which may prevent free passage of water in the void created by the membrane. Ideally a rebate should be formed at the base of every vertical wall ready to accept the HYDROCHANNEL which is the most effective means of providing a maintainable conduit to conduct the water to the sump pump. In situations where the formation of the rebate is not possible then the HYDROFLOW INSULATION should be installed to the floor prior to installing the HYDROFLOW HP20 but ensuring a rebate is allowed to the perimeter 100mm to enable the HYDROCHANNEL to be installed.

Surface Preparation

HYDROFLOW HP should be fixed to the wall or to the vertical face using HYDROFLOW QS PLUGS at vertical centres to suit blockwork construction and no greater than 1000mm horizontal fixing centres. Should the substrate inhibit such regularities of fixing then consult Premcrete Technical Department. The membrane should be drilled using a 10mm diameter masonry drill bit and HYDROFLOW QS PLUGS should be hammered into the hole to secure the membrane.

The selvedge, along the length of the HYDROFLOW HP8, should lap onto the adjacent sheet and is sealed using HYDROFLOW BUTYL TAPE. The sheet should run into the rebate that has been formed in the floor slab but leave 50mm short from the base of the channel before installing the HYDROCHANNEL onto the face of the wall membrane.

If HYDROCHANNEL is not used, then the sheet should be cut 20mm short of the floor substrate, which will allow for the free passage of water into the void created by the floor membrane.

All lap joints should be over-taped with HYDROFLOW CORNER TAPE.

Once the HYDROFLOW HP8 has been installed to the vertical walls then installation of the HYDROFLOW HP20 floor membrane should commence. HYDROFLOW BUTYL TAPE should be applied between first and second row of cuspates. The adjacent sheet should then interlock by two cuspates with the HYDROFLOW BUTYL TAPE forming an effective seal between the two sheets.

The junction between the wall and floor membrane should be taped using HYDROFLOW CORNER TAPE. The same tape should also be used to effectively seal where the membrane may terminate such as at the soffit junction. Prior to applying the HYDROFLOW CORNER TAPE, prime the substrate using HYDROPRUFE PRIMER.

Any service penetrations through the membrane should be sealed using HYDROFLOW CORNER TAPE.

Upon completion of the cavity drain installation the entire system should be flushed through with clean water and the sump pump should be tested to ensure functionality.

HYDROFLOW HP



PACKAGING & COVERAGE

Hydroflow HP8

8mm x 2m x 20m rolls.

Hydroflow HP20

20mm x 2m x 20m rolls.

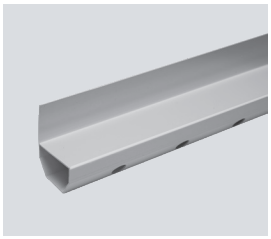
STORAGE & SHELF LIFE

Store in cool dry conditions away from direct sunlight.

HEALTH & SAFETY

See separate Material Safety Data Sheet.

ANCILLARY PRODUCTS



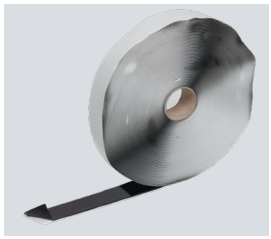
HYDROCHANNEL



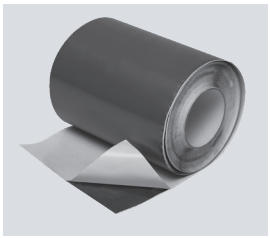
HYDROSEAL SEALER



HYDROFLOW QS PLUGS



HYDROFLOW BUTYL TAPE



HYDROFLOW CORNER TAPE



HYDROFLOW PRIMER

BBA APPROVAL INSPECTION TESTING CERTIFICATION 21/5852

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PREMCRETE