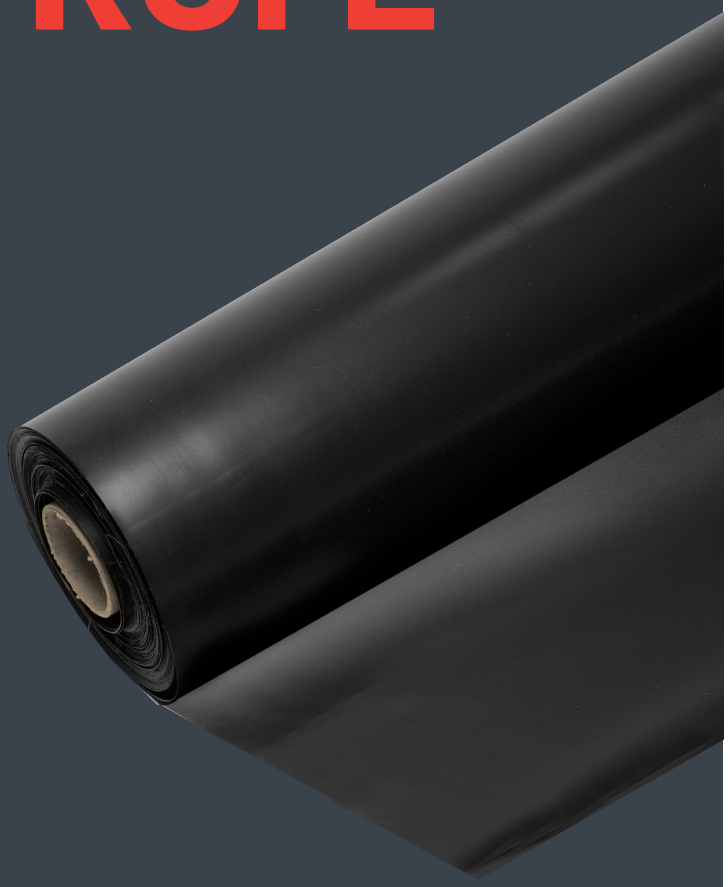
TECHNICAL DATA SHEET

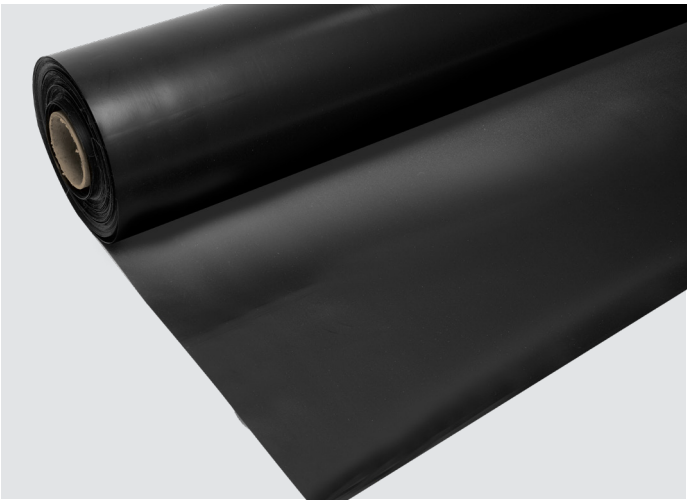
HYDROPRUFE 6000



Gas & VOC resistant damp-proof membrane

PREMCRETE

HYDROPRUFE 6000





DAMP RESISTANT

GAS RESISTANT

RADON RESISTANT

VOC RESISTANT

BDA CERTIFIED

UK CONFORMITY

25 YEARS PRODUCT WARRANTY

DESCRIPTION

HYDROPRUFE 6000 is a high-performance, high density polythene damp-proof membrane which is suitable for use on sites that require protection from ground moisture, gas, radon, VOCs and other dangerous contaminants.

HYDROPRUFE 6000 has outstanding chemical resistance and mechanical properties, making it suitable for use where high levels of Total Petroleum Hydrocarbons (TPH) are present.

The membrane also provides protection from ground gases in accordance with BS 8485:2015, and ground moisture.

HYDROPRUFE 6000 exhibits outstanding flexibility to provide ease of installation.

USES

HYDROPRUFE 6000 is designed to protect structures from the ingress of VOC's, hydrocarbons and dangerous gases.

It is typically installed to the underside of concrete floor slabs at ground level, providing effective resistance to ground moisture for the lifetime of the structure to which it has been applied, but can also be applied above structural slab level and loaded with an internal screed.

ADVANTAGES

- Excellent chemical resistance to VOC's.
- Resistant to ground gases including radon, methane and carbon dioxide.
- Robust but flexible membrane.
- Ease of installation.

HYDROPRUFE 6000

TECHNICAL & PERFORMANCE PROPERTIES

Property	Test Method	Value
Weight	EN 1849-2	0.38 kg/m²
Thickness	EN 1849-2	0.50 mm
Width	EN 1848-2	2.15 m
Straightness	EN 1848-2	Pass
Tensile (MD)	EN 12311-1	765 N/50mm²
Tensile (CD)	EN 12311-1	670 N/50mm²
Elongation at Break (MD)	EN 12311-1	21%
Elongation at Break (CD)	EN 12311-1	19%
Watertightness	EN 1928 B	Pass @ 20KPa
Shear Resistance at Joint	EN 12317-2	434 N
Water Vapour Transmission	EN 1931	4.19×10^-9 kg/m²·s
Visible Defects	EN 1850-2	No visible defects
Impact Resistance (A)	EN 12691 Method B	Pass
Nail Tear Resistance (MD)	EN 12310-1	640 N
Nail Tear Resistance (CD)	EN 12310-1	617 N
Static Loading	EN 12730 Method A	20 kg
Reaction to Fire	EN 13501-1	Class F
Methane Permeability	ISO 15105-1	20ml/m²/24Hr
Carbon Dioxide Permeability	ISO 15105-1	31ml/m²/24Hr
Radon Permeability	ISO/TS 11665-13	7.4×10^{-12} m²/s

Independent VOC Permeability Data available upon request

HYDROPRUFE 6000

INSTALLATION PROCEDURE

Surface Preparation

The sub-base should be a concrete blinding trowelled to a smooth finish without excessive surface undulations or a well compacted sand to provide a consistent surface free from sharp protrusions.

Application

HYDROPRUFE 6000 should be loose laid to the prepared sub-base, taking special care to ensure the membrane is not punctured during the installation phase. Adjacent sheets of membrane should be lapped by 150mm and the joints should be sealed using HYDROPRUFE HCR BUTYL TAPE, a double-sided tape which is placed 50mm from the edge of the sheet.

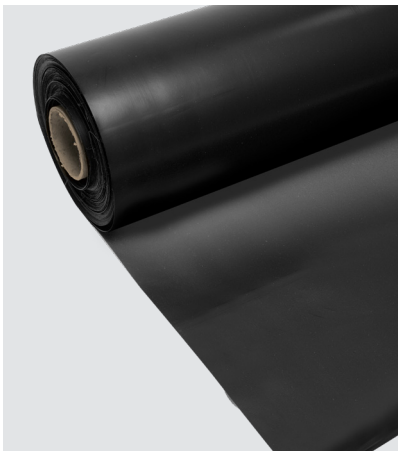
The lap joint should have pressure applied to ensure a good quality seal is achieved, preferably by use of a lap roller. The lap should then be over-taped using HYDROPRUFE HCR FOIL GIRTH TAPE, to ensure the integrity of the lap joint during concrete placement. Alternatively, the membrane may be welded using specialist hot air welding equipment. Special care should be taken around penetrations and junctions to ensure the integrity of the seal.

Preformed HYDROPRUFE TOPHAT's should be used to seal pipe penetrations and pre-formed internal and external corners may be used to provide robust detailing. Alternatively the HYDROPRUFE DETAIL TAPE can be used to effectively seal termination details, should preformed components not be adopted.

Once the membrane installation is complete, PREMCRETE PROTECTION BOARD 300 should be used to protect the installed membrane from puncture during the fixing of reinforcement steel.

PACKAGING & COVERAGE

HYDROPRUFE 6000
2m x 50m roll.
HCR BUTYL TAPE
30mm x 30m roll.
HCR FOIL GIRTH TAPE
100mm x 15m roll.
HCR DETAIL STRIP
200mm x 15m roll.



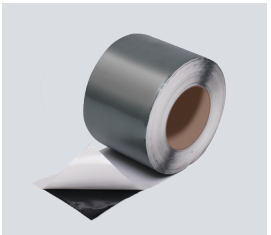
STORAGE & SHELF LIFE

Store in dry conditions at temperatures between 5°C and 30°C, when stored in good conditions the product has a shelf life in excess of one year.

HEALTH & SAFETY

See separate Material Safety Data Sheet.

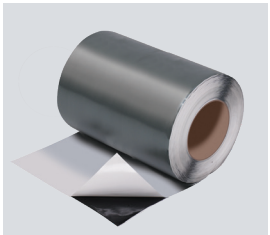
ANCILLARY PRODUCTS



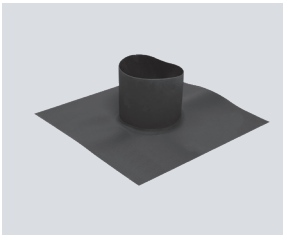
HCR FOIL GIRTH TAPE
100mm x 15m



HCR BUTYL TAPE
30mm x 30m



HCR DETAIL STRIP
200mm x 15m



TOPHAT



PROTECTION BOARD
2400 x 1200mm

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PREMCRETE