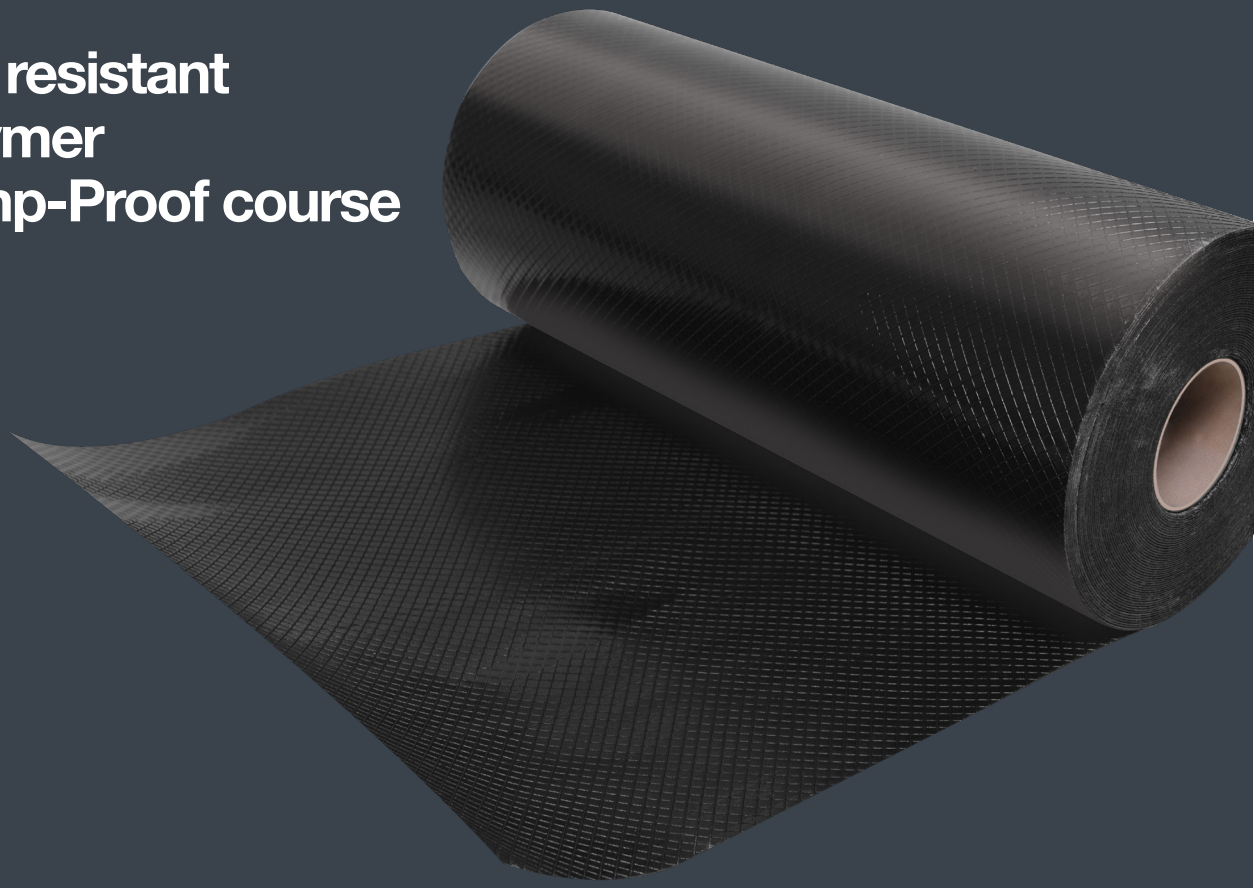
TECHNICAL DATA SHEET

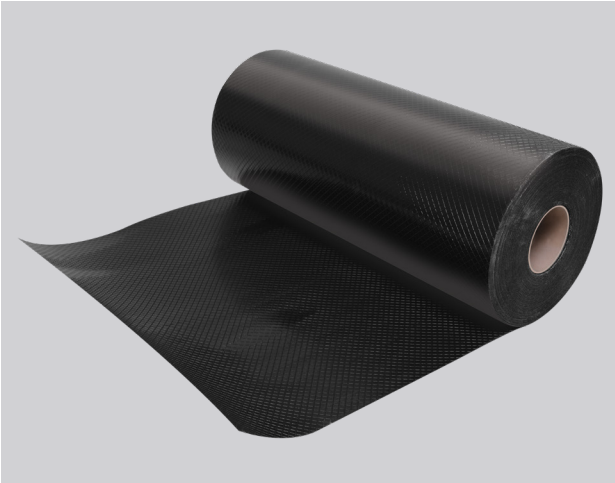
HYDROPRUFE DPC-GR

Gas resistant Polymer Damp-Proof course



PREMCRETE

HYDROPRUFE DPC-GR





DAMP RESISTANT

GAS RESISTANT

RADON RESISTANT

VOC RESISTANT

CE CONFORMITY

25 YEARS
PRODUCT WARRANTY

DESCRIPTION

HYDROPRUFE DPC-GR is a high-performance, fourteen-layer co-polymer thermoplastic membrane designed to provide an effective barrier against rising damp, moisture and ground gas vapours, including Methane, Radon, Carbon Dioxide, Hydrocarbons and VOCs.

Manufactured using advanced co-extrusion technology incorporating dual layers of Ethylene Vinyl Alcohol (EVOH), HYDROPRUFE DPC-GR provides exceptional gas resistance, tear resistance and durability while remaining flexible and easy to install.

The membrane integrates seamlessly with other PREMCRETE waterproofing and gas protection systems and is fully compliant with EN 14909:2012 and BS 8485:2015+A1:2019 (Table 7).

USES

- Damp-proof course (DPC) within masonry and load-bearing walls.
- Cavity tray within external wall and perimeter cavity construction.
- Barrier against rising damp and moisture.
- Protection against ground gases and vapours, including Methane, Radon, Carbon Dioxide, Hydrocarbons and VOCs.
- Integration with other PREMCRETE waterproofing and gas protection membrane systems.

ADVANTAGES

- High-performance fourteen-layer co-polymer thermoplastic construction.
- Dual EVOH barrier layers provide excellent resistance to ground gases and VOC vapours.
- Excellent tear resistance with a flexible yet robust construction.
- Excellent performance in high-load situations.
- Pitch-free.
- Standard and bespoke pre-formed components available for complex details and applications.
- CE Marked to EN 14909:2012 Type A.
- Compliant with BS 8485:2015+A1:2019 (Table 7).

HYDROPRUFE DPC-GR

TECHNICAL & PERFORMANCE PROPERTIES

Propertiy	Test Method	Value
Thickness	-	0.5mm
Material	-	Ethylene Vinyl Alcohol Co-Polymer (PE/EVOH)
Colour	-	Grey
Width Range	-	300mm – 1200mm
Length	-	20m
Mass	-	483 g/m²
Reaction to Fire	DIN EN ISO11925-2 / EN13501-1	E
Water Tightness @ 60kPa 24h &500kPa 72h	DIN EN1928 –Method B	Watertight
Resistance to Impact	DIN EN12691 –350mm drop	Watertight
Resistance to Static Loading	DIN EN12730	20kPa Pass
Durability (Ageing, Chemicals, Alkaline, Sulphuric)	DIN EN1296 / EN 1847	Watertight
Tensile Strength (MD/CD)	ASTM D638-03	MD - 20.9 N/mm² CD - 23 N/mm²
Elongation (MD/CD)	ASTM D882-02	MD - 739% CD - 1078%
Tear Resistance (MD/CD)	DIN EN12310-1	MD - 428 N CD - 404 N
Methane Permeability	ISO15105-1	≤0.09 ml/m².day.atm
Radon Permeability	SP Method 3873	$\leq 1.2\times10^{-12}$ m²/s
Carbon Dioxide Transmission	ISO15105-1	0.37 ml/m².day.atm

VOC and Hydrocarbon Resistance

Demonstrates resistance to Benzene, Toluene, Ethylbenzene, Xylene, Hexane, PCE, TCE, and Naphthalene (≤0.0001 ml/m²·d). Tensile strength retention >90% after chemical immersion tests.

Complies with the following standards

EN14909:2012 (Type A), BS 8485:2015+A1:2019 (Table 7), CIRIA C748 for VOC protection, and NHBC Amber 1 & 2 classification.

For further technical performance data relating to VOC resistance contact Premcrete Technical Department.

HYDROPRUFE DPC-GR

INSTALLATION PROCEDURE

Surface Preparation

The substrate HYDROPRUFE DPC-GR is to be installed shall be relatively smooth and free from excessive surface undulation.

Application

HYDROPRUFE DPC-GR should extend through the full thickness of the wall and must be laid on an even bed of wet mortar. Special care should be taken to make sure that the HYDROPRUFE DPC-GR does not become damaged or punctured during the construction phase. HYDROPRUFE DPC-GR lap should be a minimum of 100 mm and taped together using HYDROPRUFE HCR BUTYL TAPE. Cavity tray laps to pre-formed cavity tray units, must be a minimum of 100mm and bonded using HYROPRUFE HCR BUTYL TAPE. PREMCRETE TERMINATION STRIP should be used when the construction program or the design requires the HYDROPRUFE DPC-GR to be post or surface fixed to the cavity face of inner leaf. The surface should be first primed using HYDROPRUFE PRIMER before applying a line of HYDROPRUFE HCR BUTYL TAPE to the substrate. The HYDROPRUFE DPC-GR should then be adhered to the tape and fixed securely using the PREMCRETE TERMINATION STRIP and suitable fixings at 300 mm centres.

PACKAGING & COVERAGE

Pack Size

HYDROPRUFE DPC-GR

20m x 300mm roll
20m x 1200mm roll

HYDROPRUFE HCR BUTYL TAPE

30mm x 30m rolls.



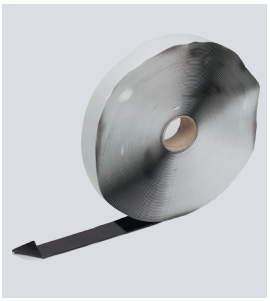
STORAGE & SHELF LIFE

HYDROPRUFE DPC-GR should be stored in cool dry conditions away from direct sunlight.

HEALTH & SAFETY

See separate Material Safety Data Sheet.

ANCILLARY PRODUCTS



HCR BUTYL TAPE



HYDROPRUFE PRIMER

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PREMCRETE