PREMCRETE

HYDROPRUFE 9000

GAS RESISTANT DAMP-PROOF MEMBRANE

DESCRIPTION

HYDROPRUFE 9000 is a virgin polyethylene, reinforced gas membrane, incorporating an aluminium core, that provides an effective barrier to ground gases including methane, carbon dioxide and radon for the lifetime of the structure to which it has been installed. The polyester reinforcement component of the multi-layered membrane reduces the risk of tearing the membrane during the installation phase. HYDROPRUFE 9000 is suitable for welding using suitable hot air welding equipment or the laps may simply by taped jointed.

USES

HYDROPRUFE 9000 is designed to be installed beneath ground floor slab construction to protect the structures from the ingress of ground gas and ground moisture. Typical applications include residential buildings, commercial buildings, industrial units and other structures that require an effective membrane to resist ground gases and moisture.

ADVANTAGES

• Restricts the ingress of ground gas to less than 40ml /M²/24hrs

• Flexible yet robust membrane for ease of installation.

• Conforms to BS 8485:2015

• Joints may be welded, or tape joined

• Reinforcement mesh component provides extra durability and tear resistance.

COMPLIANCE

• HYDROPRUFE 9000 is certified by the British Board of Agrément

Structural Waterproofing | Gas Protection | Concrete Repair
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PREMCRETE

Property	Test Method	Value
Weight	EN 1849-2	400 g/m^2
Thickness	EN 1849-2	0.76mm
Maximum Tensile MD	EN ISO 12311-1	224 N/5cm
Maximum Tensile CD	EN ISO 12311-1	274 N/5cm
Elongation at break MD	EN ISO 12311-2	12%
Elongation at break CD	EN ISO 12311-2	33%
Tear Resistance MD (nail shank)	EN 12310-1	250N
Tear Resistance CD (nail shank)	EN 12310-1	255N
Water Tightness	EN 1928 B	PASS
Resistance to Impact	EN 12691	>100mm
Moisture/Vapour Transmission Rate	EN 1932	<0.001g/m^2/24Hr
Methane Permeability	ISO 15105-1	12ml/m^2/24Hr
Shear Resistance at Joints	EN 12317-1	255N

PROCEDURE

Surface Preparation: The sub-base should be well compacted and blinded using sand to provide a soft surface free from sharp protrusions. If the membrane is to be laid directly onto a concrete blinding or floor slab then the concrete should be trowelled to a smooth finish without excessive surface undulations. It may be necessary to install PREMCRETE PROTECTION BOARD 300 to the substrate to provide an effective barrier to minor projections which may result in puncturing the membrane during installation.

Application: HYDRORPUFE 9000 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 maybe welded using specialist hot air welding equipment. Special care should be taken around penetrations and junctions to ensure the integrity of the seal. HYDROPRUFE TOPHAT pieces should be used to seal pipe penetrations and pre-formed internal and external corners. Corner pieces may be used to provide robust detailing. 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

Pack Size: 2m x 50m Roll.

HYDROPRUFE HCR BUTYL TAPE: 30mm x 30m roll.

 HYDROPRUFE HCR FOIL GIRTH TAPE: 100mm x 15m roll.

HYDROPRUFE DETAIL TAPE: 150mm x 15m roll.

STORAGE & SHELF LIFE

TEKNOCEM HBR should be kept in clean dry conditions at temperatures between 8^0C and 30^0C. When stored in unopened bags, the product will have a shelf life of 12 months.

HEALTH & SAFETY

See separate material safety datasheet.