BUILDING TRUST

PRODUCT DATA SHEET

Sikaplan®-1650 DPM Gas Barrier

MULTI-LAYER, LOW DENSITY POLYETHYLENE MEMBRANE FOR GROUND LEVEL DAMP-PROOFING

PRODUCT DESCRIPTION

Sikaplan®-1650 DPM Gas Barrier is a multi-layer, low density polyethylene membrane, reinforced with a polypropylene reinforcing grid with an integral aluminium foil. Sikaplan®-1650 DPM Gas Barrier is specifically designed and manufactured to perform as a Methane, Carbon Dioxide, Radon Ground Gas, air and moisture protection system.

USES

- Ground level DPM
- Building protection from ground gases, radon, methane and carbon dioxide

CHARACTERISTICS / ADVANTAGES

- Fully tested to BS8485:2015
- Welded joints for improved sealing
- In-built grid to give greater strength
- Fully compatible with below ground waterproofing systems

APPROVALS / STANDARDS

CE Mark - EN13967:2012
NHBC Standards Compliant
BS 8485:2015 Compliant
BBA Certified

PRODUCT INFORMATION

Packaging	2m x 50m roll. Roll weights can be in excess of 20kg and hence appropriate care and equipment is required for unloading and handling.		
Shelf Life	Indefinite		
Storage Conditions	Rolls of Sikaplan®-1650 DPM Gas Barrier should be stored on stable/level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged, but should be protected from exposure to UV.		
Overall Thickness	Thickness	0.6 mm	(EN 1849-2)
	Thickness - between scrim	0.4 mm Micrometre	
	Width / Length	2 m x 50 m	
	Weight	370 G/m²	
Tensile Strength	Tensile Strength (MD)	600 N/50mm	(EN 12311-1)
	Tensile Strength (CMD)	480 N/50mm	
Elongation	Tensile Elongation (MD)	20%	(EN 12310-1)
	Tensile Elongation (CMD)	20%	
Resistance to Static Puncture	1.25 kN		(EN 12236)

Resistance to Static Load	20 kg		(EN 12730-B)
Water Tightness	Pass		(EN 1296, EN 1367, EN 1928)
Resistance to Tearing (nail shank)	(Nail Shank) MD	330 N	(EN 12310-1)
	(Nail Shank) CMD	400 N	
Chemical Resistance	Transmission Rate of Volatile Liquids - Diesel	0.246 g/m²/h	(ISO 6179:2010 (B))
	Transmission Rate of Volatile Liquids - Xylene	0.571 g/m²/h	
	Transmission Rate of Volatile Liquids - Toluene	0.583 g/m²/h	
	Transmission Rate of Volatile Liquids - Petrol	0.135 g/m²/h	
Reaction to Fire	Class E		(EN 13501-1)
Permeability to Radon	8.0×10^{-15} m²/s		(K124/02/95)
Permeability to Methane	<0.09 ml/m²/day/atm		(BS EN ISO 15105-1)

APPLICATION INSTRUCTIONS

INSTALLATION
Sikaplan®-1650 DPM Gas Barrier should be installed in accordance with the product installation guidelines, and in accordance with BS 8485:2015.

JOINTING AND SEALING
It is recommended Sikaplan®-1650 DPM Gas Barrier be heat welded where possible, with welding carried out by competent personnel with suitable qualifications in accordance with best practice, and guidance contained within BS 8485:2015. Sikaplan®-1650 DPM Gas Barrier should be overlapped by at least 100mm. If taping joints, only suitable tape must be used, ensuring application with a silicone roller to remove trapped air. Pre-formed details, or Self Adhesive Gas Membrane are available for sealing around protuberances.

VALUE BASE

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

LEGAL NOTES

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