

## 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

<b>Packaging</b>	2m x 50m roll. Roll weights can be in excess of 20kg and hence appropriate care and equipment is required for unloading and handling.		
<b>Shelf Life</b>	Indefinite		
<b>Storage Conditions</b>	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.		
<b>Overall Thickness</b>	Thickness	0.6 mm	(EN 1849-2)
	Thickness - between scrim	0.4 mm Micrometre	
	Width / Length	2 m x 50 m	
	Weight	370 G/m <sup>2</sup>	
<b>Tensile Strength</b>	Tensile Strength (MD)	600 N/50mm	(EN 12311-1)
	Tensile Strength (CMD)	480 N/50mm	
<b>Elongation</b>	Tensile Elongation (MD)	20%	(EN 12310-1)
	Tensile Elongation (CMD)	20%	
<b>Resistance to Static Puncture</b>	1.25 kN		(EN 12236)

<b>Resistance to Static Load</b>	20 kg	(EN 12730-B)	
<b>Water Tightness</b>	Pass	(EN 1296, EN 1367, EN 1928)	
<b>Resistance to Tearing (nail shank)</b>	(Nail Shank) MD	330 N	(EN 12310-1)
	(Nail Shank) CMD	400 N	
<b>Chemical Resistance</b>	Transmission Rate of Volatile Liquids - Diesel	0.246 g/m <sup>2</sup> /h	(ISO 6179:2010 (B))
	Transmission Rate of Volatile Liquids - Xylene	0.571 g/m <sup>2</sup> /h	
	Transmission Rate of Volatile Liquids - Toluene	0.583 g/m <sup>2</sup> /h	
	Transmission Rate of Volatile Liquids - Petrol	0.135 g/m <sup>2</sup> /h	
<b>Reaction to Fire</b>	Class E	(EN 13501-1)	
<b>Permeability to Radon</b>	8.0 x 10 <sup>-15</sup> m <sup>2</sup> /s	(K124/02/95)	
<b>Permeability to Methane</b>	<0.09 ml/m <sup>2</sup> /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 protruberances.

### 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

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.

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