

# PRODUCT DATA SHEET

# Sikaplan®-1651 Loose VOC Gas Barrier

A LOOSE LAID, MULTI-LAYER, POLYETHYLENE MEMBRANE FOR GROUND LEVEL WATERPROOF-ING AND GAS PROTECTION

# PRODUCT DESCRIPTION

Sikaplan®-1651 Loose VOC Gas Barrier is specifically designed, manufactured, tested and certified to perform as a methane, carbon dioxide, radon, ground gas, VOC, air and moisture and hydrocarbon protection system.

#### **USES**

Suitable for use as ground gas, hydrocarbon protection and waterproofing at ground level or below ground installations.

# **CHARACTERISTICS / ADVANTAGES**

- Quick and easy installation.
- Can be a fully welded system.
- High resistance to ground gases.
- Exceptional chemical resistance.
- Manufactured to meet the most up-to-date British Standards and guidance.
- Long term durability (performance guarantees for the lifetime of the building).

# **APPROVALS / STANDARDS**

CE Mark - EN13967:2012 NHBC Standards Compliant CIRIA C748 Compliant (VOC barrier) BS 8485:2015 Compliant (Methane and carbon dioxide barrier) BBA Certified

# PRODUCT INFORMATION

Packaging	2m x 50m roll Internal Corner & I	2m x 50m roll Internal Corner & External Corner - 495mm x 495mm - 10 pc/box			
Shelf Life	Indefinite				
Storage Conditions	Must be stored horizontally, indoors in original packaging.				
Overall Thickness	Thickness	0.5 mm	(EN 1849-2)		
	Width	2 m			
	Length	50 m			
	Weight	500 G/M <sup>2</sup>	_		
TECHNICAL INFORMATION	ON				
Tensile Strength	MD	> 550 N/50mm	(EN 12311-1		
	CMD	> 400 N/50mm	_		
Resistance to Static Puncture	≥ 2.0 kN		(EN 12236)		
Resistance to Impact	650mm		(EN 12691-B)		

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Resistance to Static Load	≥ 20 Kg		(EN 12730-B)	
Water Vapour Transimission	0.11-0.18 G/M <sup>2</sup> /DAY		(EN 1931)	
Water Tightness	Watertightness (60 kPa) Watertightness (196 kPa - 20m Water Head) (Base- ment application)	PASS PASS	(EN 1928)	
Resistance to Tearing (nail shank)	MD CMD	> 550% > 550%	(EN 12310-1)	
Chemical Resistance	PASS (EN 1847/EN 1928) Tested to EN ISO 15105-1 for methane, carbon dioxide and radon permeability. Tested to EN ISO 15105-2 for various hydrocarbon permeabilities. FOR FULL DURABILITY AND CHEMICAL RESISTANCE INFORMATION, PLEASE CONTACT SIKA WATERPROOFING TECHNICAL			
Reaction to Fire	Class E		(EN 133501-1)	
Permeability to Radon	1.0 x 10 <sup>-12</sup> m <sup>2</sup> /S		(K124/02/195)	
Permeability to Methane	0.13 ml/m <sup>2</sup> /day/atm		(EN ISO 15105-1)	

# **APPLICATION INSTRUCTIONS**

#### **INSTALLATION**

Sikaplan®-1651 Loose VOC Gas Barrier should be installed in accordance with the product installation guidelines, and in accordance with BS 8485:2015 and Ciria C748.

#### **JOINTING AND SEALING**

Sikaplan®-1651 Loose VOC Gas Barrier must be heat welded on all laps, with welding carried out by competent personnel with suitable qualifications in accordance with best practice, and guidance contained within BS 8485:2015. Sikaplan®-1651 Loose VOC Gas Barrier should be overlapped by at least 50mm. Pre-formed corner pieces are available for sealing corners. A separate strip is available for detailing.

## **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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