PRODUCT DATA SHEET

Sikaplan®-1652 Bonded VOC Gas Barrier

A PRE-APPLIED, MULTI-LAYER, POLYETHYLENE MEMBRANE FOR BELOW GROUND WATERPROOFING AND GAS PROTECTION

PRODUCT DESCRIPTION

Sikaplan®-1652 Bonded VOC Gas Barrier is a pre-applied fully bonded waterproofing membrane incorporating Sikaplan®-1651 Loose VOC Gas Barrier membrane and a heavy duty virgin polypropylene geotextile. The geotextile is laminated to the membrane to provide a dual function; protecting the membrane from damage and providing an integrated 'bond' to poured concrete, ensuring a fully bonded waterproofing barrier which has exceptionally high resistance to ground gas and VOCs. Sikaplan®-1652 Bonded VOC Gas Barrier is used for the Gas/Waterproofing/Tanking of underground structures where harmful ground gases are anticipated.

USES

- Suitable for use as a 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 guaranteed for the lifetime of the building)

APPROVALS / STANDARDS

CE Mark - EN13967:2012
NHBC Standards Compliant
BS 8485:2015 Compliant (Methane and Carbon Dioxide Barrier)
CIRIA C748 Compliant (VOC barrier)
BS 8102:2009 Compliant (Type A Waterproofing Barrier)
BBA Certified

PRODUCT INFORMATION

Packaging	1.9m x 25m roll Weld Strip - 100mm x 10m roll Edge Strip - 1m x 25m roll		
Shelf Life	Indefinite		
Storage Conditions	Must be stored horizontally, indoors in original packaging.		
Overall Thickness	Thickness	2.0 mm	(EN 1849-2)
	Width	1.9 m	
	Length	25 m	
	Weight	650 G/M²	

TECHNICAL INFORMATION

Tensile Strength	MD	> 550 N/50 mm	(EN 12311-1)
	CMD	> 400 N/50mm	
Elongation	Tensile Elongation (MD)	> 550%	(EN 12310-1)
	Tensile Elongation (CMD)	> 550%	
Resistance to Static Puncture	≥ 2.5 kN		(EN 12236)
Resistance to Impact	> 1650 mm		(EN 12691-B)
Resistance to Static Load	≥ 20 kg		(EN 12730-B)
Water Vapour Transimission	0.11-0.18 G/M²/DAY		(EN 1931)
Water Tightness	(60 kPa) - PASS		(EN 1928)
	(196 kPa - 20 m Water Head) (Basement Application) - PASS		(EN 1928)
Resistance to Tearing (nail shank)	> 300 N		(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	E Class		(EN 13501-1)
Adhesion in Peel	Concrete Peel Adhesion	> 3.0 kN/m	(ASTM D903 (MOD))
Permeability to Radon	1.0 x 10^{-12} m²/S		(K124/02/195)
Permeability to Methane	0.13 ml/m²/day/atm		(EN ISO 15105-1)

APPLICATION INSTRUCTIONS

INSTALLATION
Sikaplan®-1652 Bonded 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®-1652 Bonded 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®-1652 Bonded VOC Gas Barrier should be overlapped by at least 50mm. Preformed 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.

SIKA LIMITED
Watchmead
Welwyn Garden City
Hertfordshire, AL7 1BQ
Tel: 01707 394444
Web: www.sika.co.uk
Twitter: @SikaLimited

SIKA IRELAND LIMITED
Ballymun Industrial Estate
Ballymun
Dublin 11, Ireland
Tel: +353 1 862 0709
Web: www.sika.ie
Twitter: @SikaIreland