

PRODUCT DATA SHEET

Sikaplan® WT 1200-20 C

2.0 mm thick FPO sheet membrane for below-grade waterproofing

PRODUCT DESCRIPTION

Sikaplan® WT 1200-20 C is a 2.0 mm thick sheet waterproofing membrane. It contains an inlay for restraint and is based on flexible polyolefin (FPO-PE).

WHERE TO USE

Sikaplan® WT 1200-20 C can be used in the following application, but is not limited to:

- Waterproofing of basements against water ingress
- Waterproofing of cut-and-cover structures against water ingress

Please note:

- Sikaplan® WT 1200-20 C is not suitable for permanent exposure to liquids with temperatures above 40 °C.

CHARACTERISTICS / ADVANTAGES

Sikaplan® WT 1200-20 C provides the following characteristics and benefits:

- Part of the complete waterproofing membrane system
- Proven performance over decades
- Good resistance to ageing
- High tensile strength and elongation
- Flexible in very cold temperatures
- Suitable for contact with acidic (soft) water and alkaline environments
- Conditionally UV stable
- Good resistance to bitumen

APPROVALS / CERTIFICATES

- CE marking and declaration of performance based on EN 13967:2012 Flexible sheets for waterproofing — Plastic and rubber damp proof sheets including plastic and rubber basement tanking sheet — Definitions and characteristics
- CE marking and declaration of performance based on EN 13491:2004/A1:2006 Geosynthetic barriers — Characteristics required for use as a fluid barrier in the construction of tunnels and underground structures

PRODUCT INFORMATION

Composition / Manufacturing	FPO/PE	
Packaging	Roll width	2 m
	Roll length	15 m or specified
Appearance / Colour	Surface texture	Smooth
	Top layer colour	Green
	Bottom layer colour	Black

Shelf Life	5 years from date of production		
Storage Conditions	Sikaplan® WT 1200-20 C must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between 5 °C and 35 °C. Protect Sikaplan® WT 1200-20 C from direct weather exposure. Store in a horizontal position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to packaging.		
Effective Thickness	2.0 mm (-0.1 mm / +0.2 mm)		(EN 1849-2)
Mass per Unit Area	1.84 kg/m ² (-0.09 kg/m ² / +0.18 kg/m ²)		(EN 1849-2)

TECHNICAL INFORMATION

Resistance to Impact	Method A, 500 g falling weight	Watertight at 750 mm drop height	(EN 12691)
Resistance to Static Load	No perforation at 20 kg for 24 h		(EN 12730)
Resistance to Static Puncture	3.15 kN ± 0.31 kN		(EN ISO 12236)
Tensile Strength	Longitudinal (MD)	11.5 MPa ± 1.5 MPa	(EN ISO 527-3)
	Transversal (CMD)	9.5 MPa ± 1.0 MPa	
	Longitudinal (MD)	11.5 MPa ± 1.5 MPa	(EN 12311-2)
	Transversal (CMD)	9.5 MPa ± 1.0 MPa	
Elongation at Break	Longitudinal (MD)	> 450 %	(EN ISO 527-3)
	Transversal (CMD)	> 450 %	
Resistance to Tear	Longitudinal (MD)	750 N ± 75 N	(EN 12310-1)
	Transversal (CMD)	750 N ± 75 N	
Joint Shear Resistance	> 650 N/50mm		(EN 12317-2)
Foldability	No cracks at -40 °C		(EN 495-5)
Reaction to Fire	Class E		(EN 13501-1)
Exposure to Bitumen	Aged 28 days at 50 °C, tested at 400 kPa	Pass	(EN 1928; EN 1548)
Resistance to UV Exposure	Not permanently UV stable		
Resistance to Weathering	Not resistant to permanent weathering		
Resistance to Oxidation	Change in tensile strength, aged 90 days at 85 °C	< 10 %	(EN 14575)
	Change in elongation, aged 90 days at 85 °C	< 10 %	
	Durability of watertightness aged 90 days at 85 °C, tested 24 hours at 400 kPa	Pass	
Diffusion Resistance to Water Vapour	Resistance factor, Method A, tested at 23 °C and 75 % r.h.	μ = 80 000 ± 24 000	(EN 1931)

Watertightness	Method B: 24 hours at 400 kPa	Pass	(EN 1928)
Durability of Watertightness against Ageing	Aged 12 weeks at 70 °C, tested 24 hours at 400 kPa	Pass	(EN 1296)
Durability of Watertightness against Chemicals	Aged 28 days at 23 °C, tested 24 hours at 400 kPa	Pass	(EN 1847)
Service Temperature	Minimum Maximum	-10 °C 40 °C	
Ambient Maximum Temperature of Liquids	Maximum	40 °C	
Behaviour after heat welding	Behaviour of weld in shear test	Break occurs outside the seam	(EN 12317-2)
	Peel resistance of welded seam	No failure of the joint	(EN 12316-2)

SYSTEMS

System Structure	The Product is part of Sikaplan® WT compartmentalised waterproofing system.
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BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

ENVIRONMENT, HEALTH & SAFETY

This product is a manufactured article that does not require Safety Data Sheets to be marketed, transported or applied at the jobsite, according to the Hazardous Product Act - Section 2. Based on our current knowledge, this product is not classified as dangerous and does not contain any hazardous materials. Always wear personal protective equipment (including safety goggles and gloves) to manipulate and install Sika® products.

APPLICATION INSTRUCTIONS

Strictly follow installation procedures as defined in Method Statements, Application Manuals and working instructions which must always be adjusted to the actual site conditions.

SUBSTRATE QUALITY

For information on substrate quality and pre-treatment, refer to the following Sika® documents:

- Sikaplan® WT sheet membrane system for

waterproofing basements and other below ground structures

- Sikaplan® WT sheet membrane system for waterproofing tunnels

APPLICATION

For information on application, refer to the following Sika® documents:

- Sikaplan® WT sheet membrane system for waterproofing basements and other below ground structures
- Sikaplan® WT sheet membrane system for waterproofing tunnels

Always ensure good ventilation when applying Sikaplan® WT 1200-20 C in a confined space.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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