

# PRODUCT DATA SHEET

## Sikaplan® WT 4220-15 C Felt

1.5 mm thick FPO sheet waterproofing membrane for water tanks with fleece backing

SIKA NZ  
APPROVED  
CONTRACTOR  
ONLY

AVAILABLE  
ON INDENT  
ORDER  
ONLY

### DESCRIPTION

Sikaplan® WT 4220-15 C Felt is a 1.5 mm thick sheet waterproofing membrane. It contains an inlay for restraint, a fleece backing and is based on flexible polyolefin (FPO-PE).

### USES

The Product is designed for:

- Lining of enclosed potable water tanks
- Lining of enclosed non-potable water tanks (sprinkler tanks, etc.)

Please note:

- Do not use the Product in areas where it is exposed to weathering or UV-light.
- The Product is not suitable for permanent exposure to liquids with temperatures above +40 °C.
- The Product is not resistant to frequent or permanent exposure to water with a content of free chlorine exceeding 0.8 mg/l.

### CHARACTERISTICS / ADVANTAGES

- Certified for contact with water for human consumption
- Easy to clean and low maintenance
- Proven performance over decades
- Contains no fungicides, heavy metals, halogens or plasticisers
- Good resistance to ageing
- Integrated fleece backing cushion/levelling layer
- Good resistance to microbial degradation
- Flexible in very cold temperatures
- Suitable for contact with acidic (soft) water

### APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 13361 — Geosynthetic barriers — Characteristics required for use in the construction of reservoirs and dams
- CE Marking and Declaration of Performance to EN 13967 — Flexible sheets for waterproofing - Damp proofing and basement tanking

### PRODUCT INFORMATION

<b>Chemical Base</b>	FPO/PE	
<b>Packaging</b>	Roll width	2 m
	Roll length	20 m or specified
<b>Shelf Life</b>	5 years from date of production	
<b>Storage Conditions</b>	The Product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between +5 °C and +35 °C. Protect the Product 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.	

Appearance / Colour	Colour	blue
	Top layer surface texture	smooth
	Bottom layer surface texture	fleece backed
Effective Thickness	1.50 mm (-0.07 mm / +0.15 mm) excluding fleece backing	(EN 1849-2)
Mass per Unit Area	1.80 kg/m <sup>2</sup> (-0.09 kg/m <sup>2</sup> / +0.18 kg/m <sup>2</sup> )	(EN 1849-2)

## SYSTEM INFORMATION

System Structure	<b>Ancillary products:</b> <ul style="list-style-type: none"> <li>▪ Sikaplan® WT 4220-15 C</li> <li>▪ Sikaplan® WT 4220-18 H</li> <li>▪ Sikaplan® WT External/Internal Corner preformed 90° PE</li> <li>▪ Sikaplan® W Flat Profile Stainless Steel</li> <li>▪ Sikaplan® WT Fixation Plate PE</li> <li>▪ Sarnafil® T Prep</li> <li>▪ Sarnafil® T Clean</li> </ul>	
------------------	--	--

## TECHNICAL INFORMATION

Resistance to Impact	Method A, 500 g falling weight	Watertight at 600 mm drop height	(EN 12691)
Resistance to Static Load	No perforation at 20 kg for 24 h		(EN 12730)
Resistance to Static Puncture	8.85 kN ± 2.50 kN		(EN ISO 12236)
Tensile Strength	Longitudinal (MD)	2300 N/50mm ± 500 N/50mm	(EN ISO 527-3)
	Transversal (CMD)	2300 N/50mm ± 500 N/50mm	
	Longitudinal (MD)	2300 N/50mm ± 500 N/50mm	(EN 12311-2)
	Transversal (CMD)	2300 N/50mm ± 500 N/50mm	
Elongation at Break	Longitudinal (MD)	> 65 %	(EN ISO 527-3)
	Transversal (CMD)	> 65 %	
Resistance to Tearing (nail shank)	Longitudinal (MD)	1750 N ± 175 N	(EN 12310-1)
	Transversal (CMD)	1900 N ± 190 N	
Joint Shear Resistance	> 300 N/50mm		(EN 12317-2)
Foldability at Low Temperature	No cracks at -40 °C		(EN 495-5)
Water Tightness	Method B: 24 hours at 60 kPa	Pass	(EN 1928)
Microbiological Resistance	Change in tensile strength, aged 16 weeks	< 15 % (MD/CMD)	(EN 12225)
	Change in elongation, aged 16 weeks	< 15 % (MD/CMD)	
Durability of Water Tightness against Chemicals	Calcium hydroxide, aged 28 days at +23 °C, tested 24 hours at 60 kPa	Pass	(EN 1847)
Durability of Water Tightness against Ageing	Aged 12 weeks at +70 °C, tested 24 hours at 60 kPa	Pass	(EN 1296)

## BASIS OF PRODUCT DATA

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.

## ECOLOGY HEALTH AND SAFETY

This product is an article as defined in article 3 of regulation (EC) No 1907/2006 (REACH). It contains no substances which are intended to be released from the article under normal or reasonably foreseeable conditions of use. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in this product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w)

## APPLICATION INSTRUCTIONS

### IMPORTANT

#### Strictly follow installation procedures

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 / pre-treatment, refer to the following Sika® method statement:

- Sikaplan® WT 4220 sheet membrane (PE) system for lining potable water reservoirs

### APPLICATION

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

- Sikaplan® WT 4220 sheet membrane (PE) system for lining potable water reservoirs

### IMPORTANT

#### Application by trained personnel

The application of this Product must only be carried out by Sika® trained and/or approved contractors, experienced in this type of application.

### IMPORTANT

#### Ventilation in confined spaces

Always ensure good ventilation when applying the Product in a confined space.

#### Sika (NZ) Limited

85-91 Patiki Road  
Avondale, Auckland 1026  
New Zealand  
0800 745 269  
www.sika.co.nz



#### Product Data Sheet

Sikaplan® WT 4220-15 C Felt  
July 2023, Version 05.02  
020720201400000002

### IMPORTANT

#### Testing the water tightness

After the application, test the structure's water tightness according to the specification requirements.

## 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.

## 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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

SikaplanWT4220-15CFelt-en-NZ-(07-2023)-5-2.pdf