BUILDING TRUST

PRODUCT DATA SHEET

Sikaplan®-500 Geotextile

Geotextile for protection/separation — 500 g/m²

DESCRIPTION

Sikaplan®-500 Geotextile is a 500 g/m² polypropylene, non-woven geotextile. It is used as a protection or separation layer beneath underground or tunnel waterproofing sheet membranes

USES

The Product is used as a:
- Separation layer under waterproofing sheet membranes
- Protection layer under waterproofing sheet membranes

FEATURES

- High protection and resistance
- Made of virgin material
- Part of the complete waterproofing membrane system
- Highly resistant to ageing
- Resistant to all natural aggressive substances in groundwater and soil
- Suitable for contact with acidic (soft) water
- Can be installed on damp and wet substrates
- Flexible in cold temperatures

CERTIFICATES AND TEST REPORTS

- CE Marking and Declaration of Performance to EN 13249:2016 — Geotextiles and geotextile-related products — Characteristics required for use in the construction of roads and other trafficked areas (excluding railways and asphalt inclusion) — Filtration and Separation
- CE Marking and Declaration of Performance to EN 13252:2016 — Geotextiles and geotextile-related products — Characteristics required for use in drainage systems — Filtration and Separation
- CE Marking and Declaration of Performance to EN 13256:2016 — Geotextiles and geotextile-related products — Characteristics required for use in the construction of tunnels and underground structures — Protection

PRODUCT INFORMATION

Composition	Polypropylene		
Packaging	Roll length	25 m	
	Roll width	2 m or 3 m	
	Rolls are wrapped in a PE film.		
Appearance and colour	Colour	white	
	Surface Texture	structured	
Shelf life	5 years from date of production		
Storage conditions	Product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between +5 °C and +35 °C. 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.		
Thickness	At 2 kPa	3.5 mm ± 0.4 mm	(EN ISO 9863-1)
Mass per area	500 g/m² ± 50 g/m²		(ISO 9864)

TECHNICAL INFORMATION

Resistance to static puncture	6.4 kN ± 0.7 kN		(EN ISO 12236)
Tensile strength	Longitudinal (MD)	35.0 kN/m ± 4.6 kN/m	(EN ISO 10319)
	Transversal (CMD)	35.0 kN/m ± 4.6 kN/m	
Elongation	Longitudinal (MD)	60 % ± 13 %	(EN ISO 10319)
	Transversal (CMD)	75 % ± 17 %	
Reaction to fire	Class E		(EN 13501-1)
Resistance to UV exposure	Not permanently UV stable		
Resistance to weathering	Not resistant to permanent weathering		
Resistance to dynamic perforation	7 mm ± 2 mm		(EN ISO 13433)
Water permeability	Normal to the plane	28 L/(m²·s) ± 9 L/(m²·s)	(EN ISO 11058)
Opening size	Characteristic	60 µm ± 18 µm	(EN ISO 12956)
Water flow capacity	At 20 kPa	0.01 L/(m·s) (R/R, i=1)	(EN ISO 12958)

Protection efficiency	520 N ± 104 N	(EN 14574)

BASIS OF PRODUCT DATA

All technical data stated in this 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 the 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.

APPLICATION METHOD / TOOLS

1. Loosely lay the geotextile sheet.
2. Mechanically spot fasten the geotextile sheet with Sikaplan® WP Discs or Sikaplan® WT Discs.
   IMPORTANT
   On sidewalls, use at least one to two discs per m². On the crown, use at least two to three discs per m².
   Note: As an alternative to fixing discs, use a contact fastening system (hook and loop) in a pattern of points or strips.

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 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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