

PRODUCT DATA SHEET

Sikaplan®-500 Geotextile

Geotextile for protection/separation — 500 g/m²

PRODUCT 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.

WHERE TO USE

Sikaplan®-500 Geotextile can be used in the following applications, but is not limited to:

- Separation layer under waterproofing sheet membranes
- Protection layer under waterproofing sheet membranes

Sikaplan®-500 Geotextile may only be used by experienced professionals

CHARACTERISTICS / ADVANTAGES

Sikaplan®-500 Geotextile provides the following characteristics and benefits:

- 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

APPROVALS / CERTIFICATES

- 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 / Manufacturing	Polypropylene	
Packaging	Roll length	25 m
	Roll width	2 m or 3 m
	Rolls are wrapped in a PE film.	
Appearance / Colour	Colour	White
	Surface Texture	Structured

Shelf Life	5 years from date of production		
Storage Conditions	Sikaplan®-500 Geotextile must be stored in original unopened and undamaged sealed packaging in dry conditions and at temperatures between 5 °C and 35 °C. Store in a horizontal position. Do not stack pallets of rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to the packaging.		
Thickness	At 2 kPa	3.5 mm ± 0.4 mm	(EN ISO 9863-1)
Mass per Unit Area	500 g/m ² ± 50 g/m ²		(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/(m ² ·s) ± 9 L/(m ² ·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

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 specified in the Method Statements, Application Manuals, and work instructions. These must be adapted to suit actual site conditions at all times.

APPLICATION METHOD / TOOLS

1. Unroll the geotextile sheet and position it loosely.
2. Mechanically spot-fasten the geotextile sheet with Sikaplan® WP Discs or Sikaplan® WT Discs.

Installation notes:

- On sidewalls, use a minimum of 1–2 discs per m².
- On the crown, use a minimum of 2–3 discs per m².
- 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 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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