

PRODUCT DATA SHEET

Sikaplan®-351 Geotextile SA

Polypropylene protection fabric for drainage systems and underground waterproofing.

DESCRIPTION

Sikaplan®-351 Geotextile SA is a polypropylene non-woven (thermo-fixed) fabric levelling filtration/separation layer in drainage systems. It is also used as a protection/separation layer beneath underground or tunnel waterproofing sheet membranes. Mass per unit area: ~350 g/m².

USES

The product is designed for:

- Filtration or separation in drainage systems
- Surface levelling or protection under sheet waterproofing membranes in tunnels and other underground structures.

FEATURES

- Highly resistant to ageing.
- Optimized tensile strength and elongation.
- Resistant to all natural aggressive mediums in ground water and soil.
- Suitable for contact with soft water (aggressive to concrete).
- Flexible in cold temperatures.
- Suitable for use in hot and tropical climatic conditions.

PRODUCT INFORMATION

Packaging	Roll sizes: 3.00 m (roll width) × 150.00 m (roll length) 6.00 m (roll width) × 150.00 m (roll length)	
Shelf life	5 years from date of production.	
Storage conditions	Rolls must be stored in their original package, in horizontal position and under cool and dry conditions. They must be protected from direct sunlight, rain, snow and ice, etc.	
Appearance and colour	Rolled fleece, wrapped in PE-film.	
	Surface	structured
	Colour	white
Mass per area	350 g/m ²	(ASTM D 5261)
Resistance to static puncture	(4850 +0/-400) N	(ASTM D 6241)
Tensile strength	Longitudinal (MD)	(27.0 +0/-2.1) kN/m
	Transversal (CMD)	(27.0 +0/-2.5) kN/m
Tear strength	(550) N	(ASTM D 4533)

Permeability to liquid water	Water Permeability by Permittivity	(40 +0/-10) L·m ⁻² ·s ⁻¹	(ASTM D 4491)
Opening size	Characteristic	(65 ± 10) µm	(ASTM D 4751)
Durability	To be covered within 2 weeks after installation. Predicted to be durable for 25 years in natural soils.		

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.

IMPORTANT CONSIDERATIONS

Sikaplan®-351 Geotextile SA is not resistant to permanent exposure to weathering and UV-light

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).

REGULATION (EC) NO 1907/2006 - REACH

DIRECTIVE 2004/42/CE LIMITATION OF EMISSIONS OF VOC

SUBSTRATE QUALITY

In-situ concrete:

Clean, sound and dry, homogeneous, free from oils and grease, dust and loose or friable particles.

Shotcrete:

The profile of the shotcrete surface must not exceed a ratio of length to depth of 10:1 and its min. radius must be 20 cm.

The shotcrete surface must not contain broken aggregates.

Any leaks shall be sealed with Sika® waterproof plugging mortar, or drained with Sika® FlexoDrain.

Where necessary to achieve the desired profile/surface, apply a fine sprayed concrete layer on the shotcrete surface with a min. thickness of 5 cm and aggregate diameter not exceeding 4 mm.

Steel (girders, reinforcement mesh, anchors, etc.) must also be covered with a minimum 5 cm of fine sprayed concrete.

APPLICATION

Loose laid and mechanically fastened in accordance with the Sika® application manual and installation instructions.

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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ISO 9001, 14001, 45001 - SGS
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 - Sika Construction Chemicals for Manufacturing LLC
 - Master Builders Solutions LLC

All products are supplied under a management system certified to conform to the requirements of the quality, environmental and occupational health & safety standards ISO 9001, ISO 14001 and ISO 45001.



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