

PRODUCT DATA SHEET

Aquadrain-550

Polypropylene drainage, filtration and protection layer for green roofs

PRODUCT DESCRIPTION

Aquadrain-550 is a drainage, filtration and protection layer for green roofs manufactured from polypropylene (PP) fibres.

USES

The product can be used for the following roof application:

- Drainage, filter and protection layer for flat roof extensive and intensive green roof systems with a minimal slope of 1,5 %.

Please note:

- The Product is not suitable for UV exposure and requires covering with ballast

CHARACTERISTICS / ADVANTAGES

- 3 in 1 product (drainage, filtration and protection)
- Suitable for roofs with slopes of minimum 1,5 %
- Easily installed
- Good resistance to static puncture
- Good water flow capacity

APPROVALS / STANDARDS

- CE Marking and Declaration of Performance to EN 13252: Geotextile Products - Drainage systems

PRODUCT INFORMATION

Product Declaration	EN 13252: Geotextile Products - Drainage systems	
Chemical Base	100 % Polypropylene (PP)	
Packaging	Standard rolls are wrapped individually in a black PE foil.	
	Packing unit	Refer to price list
	Roll size	
	Length	25,00 m
	Width	2,00 m
	Weight	27,50 kg
	Refer to current price list for packaging variations	
Shelf Life	5 years from date of production.	
Storage Conditions	Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between +5 °C and +30 °C. Store in a horizontal position. Do not stack pallets of the product on top of each other, or under pallets of any other materials during transport or storage. Always refer to packaging.	
Appearance / Colour	Surface Colour	Structured Brown

Length	25,00 m	
Width	2,00 m (± 10 %)	
Thickness	6,00 mm (± 10 %)	(EN ISO 9863-1)
Mass per unit area	550 g/m ² (± 10 %)	(EN ISO 9864)

TECHNICAL INFORMATION

Resistance to Static Puncture	3000 N (+0 / -300 N)	(EN ISO 12236)
Resistance to pyramid puncture	450 N (+0 / -45 N)	(EN 14574)
Tensile Strength	Longitudinal (md) ¹⁾	20 kN/m (± 3,0 kN/m) (EN ISO 10319)
	Transversal (cmd) ²⁾	20 kN/m (± 3,0 kN/m)
¹⁾ md = machine direction ²⁾ cmd = cross machine direction		
Elongation	Longitudinal (md) ¹⁾	150 % (± 30 %) (EN ISO 10319)
	Transversal (cmd) ²⁾	150 % (± 30 %)
¹⁾ md = machine direction ²⁾ cmd = cross machine direction		
Water permeability	49 l/(m ² ·s) (± 13 l/m ² ·s)	(EN ISO 11058)
Water flow capacity	43 m ² /s·10 ⁻⁶ m ² /s (± 17 m ² /s·10 ⁻⁶ m ² /s)	(EN ISO 12958)
*Flow rate at p=20 kPa and i=1,00		
Opening size	70 µm (± 20 µm)	(EN ISO 12956)

SYSTEM INFORMATION

Compatibility	<ul style="list-style-type: none"> ▪ All types of Sarnafil® membranes ▪ All types of Sikaplan® membranes
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APPLICATION INFORMATION

Ambient Air Temperature	-20 °C min. / +60 °C max.
Substrate Temperature	-30 °C min. / +60 °C max.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER DOCUMENTS

- Installation instructions: Sarnafil® and Sikaplan® flat roof waterproofing membranes

LIMITATIONS

Installation work must only be carried out by Sika® trained and approved contractors, experienced in this type of application.

- The use of Aquadrain-550 membrane is limited to geographical locations with average monthly minimum temperatures of -50 °C. Permanent ambient temperature during use is limited to +50 °C.
- The use of some ancillary products such as adhesives, cleaners and solvents is limited to temperatures above +5 °C. Observe temperature limitations in the appropriate Product Data Sheets.
- Special measures may be compulsory for installation below +5 °C ambient temperature due to safety requirements in accordance with national regulations.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

REGULATION (EC) NO 1907/2006 - REACH: 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

APPLICATION METHOD / TOOLS

Installation Procedure

- Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.
- Reference must be made to the Installation instructions: Sarnafil® and Sikaplan® flat roof waterproofing membranes

Fixing method - General

- The product is installed by loose laying.
- Adjoining sheets must overlap by ~100 mm.
- The Product is fixed in place by covering with ballast (soil and plants) immediately after installation.

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 the 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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Product Data Sheet

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