

PRODUCT DATA SHEET

Sikaplan®-705 Geotextile HK

Polypropylene protection fabric for drainage systems and underground waterproofing

DESCRIPTION

Sikaplan®-705 Geotextile HK is a polypropylene non-woven fabric used as a filtration/separation layer in drainage systems. It is also used as a protection/ separation layer beneath sheet membrane waterproofing in underground or tunnel applications. Sikaplan®-705 Geotextile HK suitable for use in hot and tropical climatic conditions.

USES

The product is designed for:

- Filtration or separation in drainage systems
- As a protection layer beneath sheet waterproofing membranes in tunnels and other underground structures

CHARACTERISTICS / ADVANTAGES

- Highly resistant to ageing
- Optimized tensile strength and elongation
- Resistant to all natural aggressive mediums found in ground water and soil
- Suitable for in contact with soft water
- Remain flexible in cold weather
- Can be installed on damp substrates

PRODUCT INFORMATION

Packaging	Roll size: 2.1 m (roll width) × 70.0 m (roll length)	
Appearance / Colour	Surface: structured Colour: white	
Shelf Life	Unlimited, provided the storage conditions are met.	
Storage Conditions	Rolls must be stored in the original package, in horizontal position in a cool and dry conditions. They must be protected from direct sunlight, rain, heat, snow and ice, etc.	
Thickness	~5.0 mm (±10%)	(EN ISO 9863-1)
Mass per Unit Area	~700 g/m ² (±10%)	(EN ISO 9864)
Resistance to Static Puncture	~5850 N	(EN ISO 12236)
Tensile Strength	~35 kN/m	(EN ISO 10319)
Elongation at break	~50 %	(EN ISO 10319)

SYSTEM INFORMATION

Compatibility

Sikaplan®-705 Geotextile HK is suitable to be used in conjunction with the following product group;

- Sikaplan® WP membranes
- Sikaplan® WT membranes
- Sikaproof® A+ membranes
- Sikaproof® P1200 membranes
- Sikaplan® WP Protection sheet
- Sika® Waterbars

Please consult with Sika Technical Department for further assistance.

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.

LIMITATIONS

Sikaplan®-705 Geotextile HK is not resistant to permanent exposure to weathering and UV-light, therefore it must be covered within 2 weeks after installation.

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

SUBSTRATE PREPARATION

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 the minimum radius must be 20 cm.

The shotcrete surface must not contain broken or sharp aggregates.

Sikaplan®-705 Geotextile HK shall be installed on damp substrates, however any water leakages shall be sealed with Sika® waterproof plugging mortar, or with the help of proper de-watering system.

APPLICATION

Sikaplan®-705 Geotextile HK shall be installed by loose laid or mechanically fastening method. However, the installation shall be carried out in conjunction with the approved waterproofing system.

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

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