

PRODUCT DATA SHEET

Sika® Drain-500 Felt

Dimpled drainage and waterproofing membrane protection sheet with geotextile felt bonded on the flat side

DESCRIPTION

Sika® Drain-500 Felt is a drainage and protection sheet produced from high density polyethylene (HDPE) with 8 mm deep dimples and a geotextile (PP) bonded on the flat side.

USES

The product is used as a drainage and protection layer for membrane waterproofing systems in mined tunnels, for instance, the arch portion of umbrella waterproofing.

Please note:

- The product is not UV stabilised and cannot be installed on structures permanently exposed to sunlight and weathering.

PRODUCT INFORMATION

Packaging	Roll width	2.4 m
	Roll length	20.0 m
Shelf life	5 years from date of production if stored properly in undamaged, unopened, original sealed packaging	
Storage conditions	The product must be stored in original undamaged packaging in cool and dry conditions. It must be protected from direct sunlight, rain, snow and ice. Always refer to packaging.	

Appearance / Colour

Brown or black, dimpled HDPE sheet with white PP geotextile bonded on the flat side



Thickness	(8.0 ± 1.0) mm	(EN ISO 9863-1)
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TECHNICAL INFORMATION

Protection efficiency	Residual thickness after 1000 hours at 30 kPa (equivalent to 1.5 m concrete)	90 % of original thickness	
Compression resistance	(200 ± 40) kN/m ²		
Tensile strength	Longitudinal (LMD)	(9 ± 2) kN/m	(EN ISO 10319)
	Transversal (CMD)	(9 ± 2) kN/m	
Elongation at maximum tensile force	Longitudinal (LMD)	(30 ± 10) %	(EN ISO 10319)
	Transversal (CMD)	(30 ± 10) %	
Ambient maximum temperature of liquids	+32 °C		
Drain flow capacity	Horizontal application at 20 kPa (R/R, i = 0.04)	(0.40 ± 0.08) l/(m·s)	(ISO 12958-2)
	Vertical application at 20 kPa (R/R, i = 1)	(2.25 ± 0.45) l/(m·s)	
	Residual plane flow capacity after 1000 hours at 30 kPa (equivalent to 1.5 m concrete)	90 % of original plane flow capacity	
Reaction to fire	Class E		(EN 13501-1)

APPLICATION INFORMATION

Ambient air temperature	Maximum	+45 °C
	Minimum	+5 °C

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.

ECOLOGY, HEALTH AND SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling,

storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The substrate conditions are as defined for the waterproofing membrane system that is to be protected with the product.

APPLICATION

IMPORTANT

Application by trained personnel

The application of this product must only be carried out by an applicator that is trained or approved by Sika. The applicator must also be experienced in this type of application.

The application method is as defined for the waterproofing membrane system that is to be protected with the product.

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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