

## 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


Refer to the current price list for available packaging variations.

### CHARACTERISTICS / ADVANTAGES

- High drainage capacity
- Sika® Drain-500 Felt provides a space between the structural elements and the substrate to allow water to be drained away
- The bonded geotextile on the flat side ensures separation and acts as a protective cushion for the waterproofing membrane
- Can be installed on damp and wet substrates

### APPROVALS / STANDARDS

- CE marking and declaration of performance based on EN 13252:2016 Geotextiles and geotextile-related products — Characteristics required for use in drainage systems — Filtration, separation and drainage (F + S + D)

<b>Shelf life</b>	5 years from date of production if stored properly in undamaged, unopened, original sealed packaging	
<b>Storage conditions</b>	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.	
<b>Appearance / Colour</b>	Brown or black, dimpled HDPE sheet with white PP geotextile bonded on the flat side	
		
<b>Thickness</b>	(8.0 ± 1.0) mm	(EN ISO 9863-1)

## TECHNICAL INFORMATION

<b>Protection efficiency</b>	Residual thickness after 1000 hours at 30 kPa (equivalent to 1.5 m concrete)	90 % of original thickness	
<b>Compression Resistance</b>	(200 ± 40) kN/m <sup>2</sup>		
<b>Tensile Strength</b>	Longitudinal (LMD)	(9 ± 2) kN/m	(EN ISO 10319)
	Transversal (CMD)	(9 ± 2) kN/m	
<b>Elongation at maximum tensile force</b>	Longitudinal (LMD)	(30 ± 10) %	(EN ISO 10319)
	Transversal (CMD)	(30 ± 10) %	
<b>Ambient Maximum Temperature of Liquids</b>	+32°C		
<b>Drain Flow Capacity</b>	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	
<b>Reaction to Fire</b>	Class E		(EN 13501-1)

## APPLICATION INFORMATION

<b>Ambient Air Temperature</b>	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

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 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

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## 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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