

PRODUCT DATA SHEET

Sika® Drain-500 Felt

Dimpled drainage and waterproofing membrane protection sheet with geotextile felt bonded on the back 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 back.

USES

As a drainage and protection layer for membrane waterproofing systems in mined tunnels, i.e. arch portion of umbrella waterproofing.


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 back side ensures separation and acts as a protective cushion for the waterproofing membrane
- Can be installed on damp and wet substrates

APPROVALS / STANDARDS

- 'Geotextiles and geotextile-related products - Characteristics required for use in drainage systems' according to EN 13252, Declaration of Performance Nr. 80253566 certified by notified factory production control certification body 1213 and provided with the CE marking.
- Quality Management System EN ISO 9001/ ISO 14001

PRODUCT INFORMATION

Packaging	Roll size	2.40 (width) × 20.00 m (length)
Appearance / Colour	Brown or black, dimpled HDPE sheet with white PP geotextile bonded on the back	
		
Shelf Life	5 years from date of production if stored properly in undamaged, unopened, original sealed packaging	
Storage Conditions	Rolls must be stored in their original packaging and in cool and dry conditions. Protect from direct sunlight, rain, snow and ice etc.	
Thickness	8.0 (±1.0) mm	(EN ISO 9863-1)

TECHNICAL INFORMATION

Compression resistance	200 (±40) kN/m ²	
Long term protection efficiency	Residual thickness after 1000 h at 30 kPa (equivalent to 1.5 m concrete)	90 % of original thickness
Tensile Strength	9 (±2) kN/m (of composite, machine and cross direction)	(EN 10319)
Elongation	30 (±10) % (of composite, machine and cross direction)	(EN 10319)
Reaction to Fire	Class E	(EN 13501-1)
Ambient Maximum Temperature of Liquids	+32 °C	
Drain flow capacity	Horizontal application at 20 kPa (R/R, i = 0.04)	0.40 l/(m·s) ± 20 % (EN 12958)
	Vertical application at 20 kPa (R/R, i = 1)	2.25 l/(m·s) ± 20 %
	Residual plane flow capacity after 1000h at 30 kPa (equivalent to 1.5 m concrete)	90 % of original plane flow capacity

APPLICATION INFORMATION

Ambient Air Temperature	+5 °C min. / +45 °C max.
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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

- Installation works must only be carried out by suitably experienced Sika® trained contractors.
- The membrane is not UV stabilized and cannot be installed on structures permanently exposed to sunlight and weathering.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

We follow PLC -Priority Chemical List and PICCS- Philippine Inventory of Chemicals and Chemical Substances but we don't indicate on our local PDS.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The substrate conditions are as defined for the waterproofing membrane system that is to be protected with the Sika® Drain-500 Felt.

APPLICATION METHOD / TOOLS

The application method is as defined for the waterproofing membrane system that is to be protected with the Sika® Drain-500 Felt.

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.

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