

PRODUCT DATA SHEET

Sika® Drain-500 Geo

Dimpled drainage and protection sheet with filtration layer

DESCRIPTION

Sika® Drain-500 Geo is a drainage and protection sheet produced from high density polyethylene (HDPE) with dimples 8 mm deep and a filtration layer of geotextile (PP) bonded on the top.

USES

As a drainage and protection sheet for preformed sheet membrane waterproofing systems, waterproofing mortars and coatings, and Sika® White Box concept for waterproofing basements.

CHARACTERISTICS / ADVANTAGES

- High drainage capacity
- Integrated filtration layer
- Resistant to all natural aggressive mediums in ground water and soil
- Suitable for contact with soft water (aggressive to concrete)
- Can be installed on damp and even wet substrates
- Sika® Drain-500 Geo forms a drainage channel in the space between the structural elements and the back-filling/soil/substrate to allow water to be drained away.

APPROVALS / CERTIFICATES

'Geotextiles and geotextile-related products - Characteristics required for use in drainage systems' according to EN 13252, Declaration of Performance Nr. 78023926 certified by notified factory production control certification body 1213 and provided with the CE marking.

PRODUCT INFORMATION

Packaging

Roll size	2.40 × 20.00 m or 2.00 × 20.00 m
-----------	-------------------------------------

Appearance / Colour

Black HDPE sheet with 8 mm deep dimples and a white geotextile filtration layer bonded the on top:



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. They must be protected from direct sunlight, rain, snow and ice, etc.

Thickness

8.0 (±0.8) mm (EN ISO 9863-1)

Unit weight

Dimpled Sheet	500 (±25) g/m ²	(EN 9864)
Geotextile	100 (±15) g/m ²	

TECHNICAL INFORMATION

Compression resistance

200 (±40) kPa

Tensile strength

10 (-2) kN/m (machine and cross direction) (EN 10319)

Elongation

50 (±12.5) % (machine and cross direction) (EN 10319)

Ambient maximum temperature of liquids

+ 30 °C (water)

Drain flow capacity

(EN 12958)

Horizontal application at 20 kPa (S/R, i= 0.04)	0.30 l/(m·s) ± 20 %
Vertical application at 20 kPa (S/R, i= 1)	1.9 l/(m·s) ± 20 %

APPLICATION INFORMATION

Ambient air temperature

+5 °C min. / +45 °C max.

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.

IMPORTANT CONSIDERATIONS

- Sika® Drain-500 Geo is not resistant against exposure to permanent weathering and sunlight.
- When used in combination with PVC membranes, a separation layer (geotextile) must be used between the materials.
- Maximum installation depth: 5 m.

ECOLOGY, HEALTH AND SAFETY

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 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

Clean, sound and dry, homogeneous, free from oils and grease, dust and loose or friable particles.

APPLICATION METHOD / TOOLS

Installation method:
Loose laid and mechanically fastened in accordance with the relevant Sika® application manual and installation instructions.

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.

Sika Hellas ABEE

15 Protomagias Str.
14568 Kryoneri
Attica-Greece
Tel.: +30 210 8160 600
Fax: +30 210 8160 606
www.sika.gr | sika@gr.sika.com



Product Data Sheet

Sika® Drain-500 Geo
June 2021, Version 02.01
020720801000000084

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.

SikaDrain-500Geo-en-GR-(06-2021)-2-1.pdf