

PRODUCT DATA SHEET

Sika® Geotextile-500

PET sheet for protection and levelling under waterproofing membrane

DESCRIPTION

Sika® Geotextile-500 is a 500 g/m² levelling and protective geo-textile layer based on Polyethylene terephthalate (PET).

USES

As a surface levelling and protective geo-textile layer under sheet waterproofing membranes, for use in tunnels, basement and other underground structures.

CHARACTERISTICS / ADVANTAGES

- Highly resistant to ageing
- High tensile strength and elongation
- Resistant to all natural aggressive mediums in ground water and soil
- Suitable for contact with soft water (aggressive to concrete)
- High flexibility in cold temperatures
- Can be installed on damp and wet substrates

APPROVALS / STANDARDS

Product Declaration GB/T17638-1998- Geo-textiles. Geo-textile-related products – Required characteristics for use in the construction of tunnels and underground structures.

PRODUCT INFORMATION

Product Declaration	GB / T 17638–1998 Mandatory for chinese standard
Packaging	Roll size : 2.00 m (roll width) x 50.00 m (roll length) Roll weight: 50.00 kg
Shelf Life	The product does not expire if correctly stored
Storage Conditions	Rolls must be stored in original package, in horizontal position and in cool and dry conditions. Stored in dry conditions, protected from direct sunlight, rain, snow and ice, etc.
Appearance / Colour	Surface: structured - White
Thickness	3.5 mm
Mass per Unit Area	500 g/m ²

SYSTEM INFORMATION

System Structure	Ancillary products: <ul style="list-style-type: none"> ▪ Sikaplan® WP Disk, Sikaplan® WT Disk and Sika Disk ▪ All Sikaplan® WP and Sikaplan® WT membranes and prefabricated parts. ▪ Sikaplan® WP Protection sheet
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- Sika® Waterbars WP, Types AR and DR for fixing pieces and Waterproofing concrete joints.

TECHNICAL INFORMATION

Resistance to Dynamic Perforation	2.7 KN	GB/T17638-1998
Tensile Strength	Tensile strength 16.0 KN/m	GB/T17638-1998
	Tear strength 0.42 KN	GB/T17638-1998
Elongation	25–100 %	GB/T17638-1998
Water permeability	Permeability coefficient $K \cdot 10^{-1} - 10^{-3} (\text{cm/s})$, $k=1.0-9.9$	GB/T17638-1998
Opening size	0.07–0.2 mm	GB/T17638-1998

APPLICATION INFORMATION

Substrate Temperature	+5 °C min./ +35 °C max. Application limits: Do not use for permanent exposure to UV light and weathering. To be covered within 1 month of installation.
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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 shall only be carried out by Sika trained contractors, experienced in the lining of tunnels and underground structures. The Sika® Geotextile-500 is not UV stabilized and must not be installed on structures where it is permanently exposed to UV-light and weathering.

ECOLOGY HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Material Safety Data Sheet containing physical, ecological, toxicological and other safety-related data.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Substrate quality: Substrate should be smooth and solid

Substrate preparation: If the substrate is rough, a fine gunite layer on the substrate with a min. thickness of 50 mm is required and cleaned without loosen aggregates, stones, nails wires, etc. If steel existed, such as girders, reinforcement mesh, anchor, etc., a min. 50 mm gunite layer is a must as a cover.

APPLICATION METHOD / TOOLS

Loose laid and mechanically fastened in accordance with the Sika® application manual and installation instructions. Surface levelling and protective felts is spot fastened with disks. On side walls at least one to two discs shall be used per m² and at the corner two to three.

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 in Baar.

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Sika® Geotextile-500
December 2022, Version 01.02
020720801000000075

SikaGeotextile-500-en-NZ-(12-2022)-1-2.pdf