

PRODUCT DATA SHEET

Sika® Geotextile-500

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

Packaging	Roll size : 3.00 m (roll width) x 50.00 m (roll length) Roll weight: 77.00 kg
Appearance / Colour	Surface: structured White
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. Protected from direct sunlight, rain, snow and ice, etc.
Product Declaration	GB / T 17638–1998 Mandatory for Chinese standard
Thickness	~3.6 mm
Mass per unit area	~500 g/m ²

TECHNICAL INFORMATION

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

SYSTEM INFORMATION

System Structure

Ancillary products:

- Sikaplan® WP Disk, Sikaplan® WT Disk and Sika Disk
- All Sikaplan® WP and Sikaplan® WT membranes and prefabricated parts
- Sikaplan® WP Protection sheet
- Sika® Waterbars WP, Types AR and DR for fixing pieces and Waterproofing concrete joints

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.

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.

IMPORTANT CONSIDERATION

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.

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.

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.

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.

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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Product Data Sheet
Sika® Geotextile-500
June 2018, Version 01.01
020704990010000102

SikaGeotextile-500-en-VN-(06-2018)-1-1.pdf