

Product Data Sheet

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Sikaplan® WT 6200-20C

**EN 13492****04****EN 13493****05****1349****EN 13582****08**

Sikaplan® WT 6200 – 20C

(Sarnafil® MP G 950-20)

Sheet waterproofing membrane – Groundwater protection

Product**Description**

Sikaplan® WT 6200-20C is a sheet waterproofing membrane with an inlay for restraint, based on flexible polyolefin (FPO-PE).

Uses

- UV-exposed lining of secondary containment for storage tank yards
- Lining under transfer stations for ground-water-polluting mediums
- Groundwater-protection under traffic infrastructures (roads and railways)

Characteristics / Advantages

- High resistance to ageing
- High tensile strength and elongation
- UV-stabilized (top layer)
- Resistant to root penetration and micro-organisms
- Resistant to natural aggressive mediums in ground water and soil
- High resistance to mechanical impact
- High dimensional stability
- High flexibility in cold temperatures
- Heat weldable
- Suitable for contact with acidic soft water (low pH aggressive to concrete surfaces)
- Suitable for installation on weak substrates (i.e. with a cohesive/pull-off strength < 1.5 N/mm²)
- Can be installed on damp and wet substrates

Tests**Approval / Standards**

Sheet waterproofing membrane with an inlay for restraint, based on flexible polyolefin (FPO-PE) for lining of secondary containment for storage tank yards and lining under transfer stations for ground-water-polluting mediums according to EN 13492, for lining areas of solid waste treatment according to EN 13493 and for protection of groundwater-protection under traffic infrastructures (roads and railways) according to EN 15382.

DoP 02 07 04 60 200 0 200000 1005 certified by the Factory Production Control Body, 1349, and provided with the CE Mark.

Construction

Product Data

Form

Appearance / Colours	Rolled sheet membrane, stabilized with glass fleece inlay. Surface: smooth Membrane thickness: 2.00 mm Colour: top layer: yellow / bottom layer: black
Packaging	Roll sizes: 2.00 m (roll width) x 20.00 – 100.00 m (roll lengths). Unit weight: 1.91 kg/m ²

Storage

Storage Conditions	Rolls must be stored in their original package, in horizontal position and under cool and dry conditions. They must be protected from direct sunlight, rain, snow and ice, etc. The product does not expire during correct storage.
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Technical Data

Product declaration	EN 13492, EN 13493, EN 13361, EN 15382: mandatory only for European countries	1213-CPD-017
Thickness	2.00 (-5 / + 10%) mm	EN 1849 - 2
Mass per unit area	1.91 (-5 / + 10%) kg/m ²	EN 1849 - 2
Thermal expansion	190 x 10 ⁻⁶ (± 50 x 10 ⁻⁶) 1/K	ASTM D 696 - 91
Water permeability	≤ 10 ⁻⁷ m ³ x m ⁻² x d ⁻¹	EN 14150
Tensile strength	Machine: 14.50 (± 4.0) N / mm ² Cross: 10.00 (± 4.0) N / mm ²	ISO 527 -1/3/5 ISO 527 -1/3/5
Tear strength	Machine: ≥ 65 kN/m Cross: ≥ 65 kN/m	ISO 34, method B; V = 50mm/min ISO 34, method B; V = 50mm/min
Elongation	Machine: ≥ 400% Cross: ≥ 420%	ISO 527 -1/3/5 ISO 527 -1/3/5
Burst strength	≥ 50%	EN 14151, D=1.00m
Static puncture	3.00 (± 0.35) kN	EN ISO 12236
Low temperature behaviour	≤ - 20°C	EN 495 - 5
Weathering	Remaining tensile strength and elongation ≥ 75%	EN 12224, 350 MJ/m ² ; ISO 527 – 3/5/100
Micro organism	Change of tensile strength: ≤ 10% Change of elongation: ≤ 10%	EN 12225, ISO 527 - 3/5 EN 12225, ISO 527 - 3/5
Oxidation	Change of tensile strength: ≤ 10% Change of elongation: ≤ 10%	EN 14575, ISO 527 - 3/5 EN 14575, ISO 527 - 3/5
Environmental stress cracking	≥ 200 h	ASTM D 5397 - 99
Leaching (water soluble)	A (hot water): change of elongation: ≤ 10% B (alkaline liquid): change of elongation: ≤ 20% C (organic alcohol): change of elongation: ≤ 20%	EN 14415 EN 14415 EN 14415
Resistance to root penetration	Pass	EN 13501 – 1

System Information

System Structure	Ancillary Products: <ul style="list-style-type: none">- Sikaplan® WT Fixing Plate PE for fixing pieces- Sarnafil® T Clean, cleaner for soiled membrane surface- Sarnafil® T Prep, cleaner for membrane surface preparation prior to heat welding
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Application Details

Substrate Quality	Concrete (new or existing), old linings and completely cured coatings: Clean and dry, homogeneous, free from oil and grease, dust and loose, friable particles. Paint, cement laitance and other poorly adhering materials must be removed. Soil: The excavated soil, or dam fill must be compacted to Proctor value min. 95%. Broken aggregates, crushed stones and roots on soil surface must be removed. To allow adequate dewatering under the waterproofing membrane, the soil must be sloped to $\geq 4\%$ and must be covered with a filter layer of fine gravel (dia. $\leq 4\text{mm}$ / thickness 5cm). A cushion layer of (non woven fabric) geotextile with min. density of 500g/m^2 must then be laid on top of prepared substrate, prior to membrane installation.
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Application Conditions / Limits

Substrate Temperature	0°C min. / +35°C max.
Ambient Air Temperature	+5°C min. / +35°C max.
Ambient max. Temperature of Liquids	+35°C (water)

Application Instructions

Application Method / Tools	Installation method: Loose laid and mechanically fastened, or loose laid and ballasted in accordance with the separate Sika Method Statement for sheet waterproofing membrane installations. All membrane overlaps must be welded by using hand welding guns and pressure rollers or automatic heat welding machines, with individually adjustable and electronically controlled welding temperatures (such as the manual Leister Triac PID / automatic: Leister Twinny S / semi-automatic: Leister Triac Drive). All membrane surfaces must be activated and cleaned within the membrane overlaps with Sarnafil® T Prep and Sarnafil® T Clean prior to welding procedures. Welding parameters, such as speed and temperature must be established with trials on site, prior to any welding works.
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Notes on Application / Limits	This product must only be used by Sika approved contractors. The watertightness of the structure must be tested and approved after completion of the membrane installation works according to the requirements of the client's specifications.
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Value Base

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 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.

Health and Safety Information

This product is an article within the meaning of Article 3.3 of Regulation (EC) No. 1907/2006. A safety data sheet following EC- Regulation 1907/2006, article 31 is not needed to bring the product to the market to transport or use it. The product does not damage the environment when used as specified.

REACH	<p>European Community Regulation on chemicals and their safe use (REACH: EC 1907/2006)</p> <p>This product is an article within the meaning 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. Therefore, there are no registration requirements for substances in articles within the meaning of Article 7.1 of the Regulation.</p> <p>Based on our current knowledge, this product does not contain SVHC (substances of very high concern) from the candidate list published by the European Chemicals Agency in concentrations above 0.1 % (w/w).</p>
Protective Measures	<p>Fresh air ventilation must be ensured, when working (welding) in closed rooms. Local safety regulations must be observed.</p> <p>Smoking must be strictly not permitted, when working with Sarnafil® T Prep and Sarnafil® T Clean in closed tanks.</p>
Transportation Class	The product is not classified as hazardous good for transport.
Disposal	The material is recyclable. Disposal must be according to local regulations. Please contact your local Sika sales organisation for more information.
Legal Notes	<p>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.</p>



Sika Hellas ABEE
 Protomagias 15
 GR 14568 Kryoneri
 Athens-Greece

Phone +30 210 8160600
 Telefax +30 210 8160606
www.sika.gr
sika@gr.sika.com

