

Product Data Sheet

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Sika® BituSeal T-240 PG (-5°C) HR Antiroot

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Torch applied sheet waterproofing membrane

Product Description

Sika® BituSeal T-240 PG (-5°C) HR Antiroot is a torch applied sheet waterproofing membrane on base of APP- polymerized bitumen, reinforced with Polyester non woven fabric, and faced with a PE-film on surface and on reverse to ease installation works. Sika® BituSeal T-240 PG (-5°C) HR Antiroot contains special chemical additives against root penetrations.

Uses

- Underground waterproofing of: tunnels, basements, pipes etc.
- Waterproofing of green roofs

Characteristics / Advantages

- Resistant to ageing (under protection)
- Good tensile strength and elongation
- High resistance to water vapour permeability
- Dimensional stable
- Flexible at low temperatures
- Easy to install by using flame torch method
- Resistant to root penetration
- Must be installed on primed and smooth substrates of concrete or brickwalls

Tests**Approval / Standards**

Product Declaration EN 13707
Installations on roofs according to EN 13707

Product Data**Form****Appearance / Colours**

Rolled sheet membrane, reinforced with Polyester non woven fabric (160gr/m²).
Surface: PE-film, reverse: PE-film to ease installation works
Colour: black

Packaging

Roll size: 1.00 m (roll width) x 10.00 m (roll length).
Unit weight: 4.00 kg/m²



Storage

Storage Conditions / Shelf-Life	Rolls must be stored in their original package, in vertical position and under cool and dry conditions. They must be protected from direct sunlight, rain, snow and ice.
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Technical Data

Product Declaration	EN 13707	
Length	10.00 m ($\pm 0,2\%$)	(EN 1848 - 1)
Width	1.00 m ($\pm 1\%$)	(EN 1848 - 1)
Mass per Unit Area	4.00 kg / m ² ($\pm 5\%$)	(EN 1849 - 1)
Flow Resistance	At elevated temperature: $\geq 130^{\circ}\text{C}$	(EN 1110)

Mechanical /Physical Properties

Water Tightness	≥ 60 kPa	(EN 1928 - B)
Tensile Strength	Max. Tensile strength longitudinal / transversal: 650 N / 50mm ($\pm 20\%$) 500 N / 50mm ($\pm 20\%$)	(EN 12311 - 1)
Elongation	Longitudinal / Transversal: 40% ($\pm 20\%$) 40% ($\pm 20\%$)	(EN 12311 - 1)
Dimensional Stability	Longitudinal / Transversal: $\leq 0.2\%$ $\leq 0.2\%$	(EN 1107 - 1)
Water Vapour Transmission	$\mu \geq 20'000$	(EN 1931)
Flexibility at Low Temperature	$\leq -5^{\circ}\text{C}$	(EN 1109)
Resistance to Static Loading	15kg	(EN 12730)
Reaction to Fire	E - class F	(EN 13501 - 1)
Resistance to Root Penetration	Pass	(EN 13948)

System Information

System Structure	Ancillary Product: Sika® Igolflex® P –01 S
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Application Details

Substrate Quality	<i>Concrete / brickwork / mortar screeds:</i> Clean, sound and dry, homogeneous, free from oils and grease, dust and loose or friable particles. Horizontal surfaces must be sloped $> 1.5\%$.
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Application Conditions / Limitations

Substrate Temperature	$+5^{\circ}\text{C}$ min. / $+35^{\circ}\text{C}$ max.
Ambient Temperature	$+5^{\circ}\text{C}$ min. / $+35^{\circ}\text{C}$ max.
Substrate Humidity	no visible moisture
Relative Air Humidity	80% max.

Application Instructions

Application Method / Tools

Primer application on substrate for first membrane layer:

Application of Sika® Igolflex® P –01 S (product that contains solvent) consumption approx. 300g/m². Application by brush, roller, or airless spraying. Waiting time, depending to temperature, complete evaporation. Priming for second and further membrane layers not required.

Installation method:

Fully bonded to substrate by torch-on method with Propane - gas flame. Unrolling and positioning of membrane roll with PE-film faced to substrate. Rolling of half roll length, heating of membrane reverse with gas flame until melting of PE-film and bitumen mass while continuous unrolling. A bead of liquid bitumen must be visible on underside of roll. The torch-on membrane must be firmly pressed to substrate in order to avoid air entrapments either with roller or heavy broom. Repeat procedure with second half of roll length.

All installed membranes must be sufficiently overlapped. Sidelaps: 100 mm, Endlaps: 150 mm. The seams must be finished with roller while installing of membranes to close gaps and capillaries.

Notes on Application / Limitations

This product shall only be used by installers, skilled and experienced in installation of bituminous membranes.

Avoid damage on installed membrane while over torch of further sheet membrane

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

The membrane is not UV - stable and can not be installed on structures permanently exposed to UV light and weathering..

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 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.

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).

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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