

PRODUCT DATA SHEET

SikaBit® T-5185 PG SA

5 MM TORCH-ON SHEET WATERPROOFING AND ROOFING MEMBRANE BASED ON SBS MODIFIED, REINFORCED BITUMEN 180 G/M², WITH POLYETHYLENE FILM ON BOTH SIDES.

DESCRIPTION

SikaBit® T-5185 PG SA is a high performance elastomeric torch-on sheet waterproofing membrane. It is based on SBS modified bitumen, reinforced with a 180 g/m² polyester non-woven fabric, faced with a polyethylene film on both sides.

Suitable for use in tropical and hot climatic conditions.

USES

SikaBit® T-5185 PG SA may only be used by experienced professionals.

It is used as a waterproofing membrane for protection of various substrates in a wide range of application.

- Waterproofing and damp-proofing of basements against permanent water submersion and damp soils, including pile capping and foundations
- Waterproofing of retaining walls
- Waterproofing on flat roofs under protective layers or ballast
- Waterproofing on balconies, terraces and wetrooms under screed / tiles

CHARACTERISTICS / ADVANTAGES

- Resistant to ageing
- Good tensile strength and elongation
- High resistance to water vapour
- Good dimensional stability
- Flexible at low temperatures
- Easy to install using the torch-on method
- Good resistance to mechanical impact

PRODUCT INFORMATION

Composition	SBS Modified Bitumen
Packaging	Roll size: 1.00 m (-1 %) x 10.00 m (-1 %), 23 rolls per pallet
Appearance / Colour	Rolled sheet membrane, reinforced with polyester non-woven fabric with Polyethylene film on both sides for ease of installation. Colour: Black
Shelf life	2 years minimum from date of production if stored properly in original unopened packaging.
Storage conditions	Rolls must be stored in their original package, in vertical position and under cool and dry conditions between temperatures of +5°C and +35°C. They must be protected from direct sunlight, rain, snow and ice.
Effective Thickness	5 mm (-0.2 mm) (ASTM D5147)

Mass per unit area 5.7 kg/m² (±10 %) (EN 1849-1)

TECHNICAL INFORMATION

Resistance to Impact	>700 mm	(EN 12691)	
Tensile Strength	Longitudinal	765 N/50 mm (±11 %)	(EN 12311-1)
	Transversal	630 N/50 mm (±11 %)	
Elongation	Longitudinal	43 % (±8)	(ASTM D5147)
	Transversal	48 % (±8)	
Tear Strength	Longitudinal	≥550 N	(ASTM D5147)
	Transversal	≥355 N	
Joint Shear Resistance	Longitudinal	765 N/50 mm (±11 %)	(EN 12317-1)
	Transversal	630 N/50 mm (±11 %)	
Softening Point	Foldability at Low Temperature	Softening Point	(ASTM D36)
	-5 °C	≥110 °C	
	-20 °C	≥120 °C	
Foldability at Low Temperature	Available in -5 °C and -20 °C	(EN 1109)	
Permeability to Water Vapour	<0.35 g/m ² /24h	(ASTM E96)	
Watertightness	Method A	≥ 60 kPa	(EN 1928-1)
	Method B	≥ 400 kPa	
Service Temperature	0 °C min. / +35 °C max.		

APPLICATION INFORMATION

Ambient Air Temperature +5 °C min. / +50 °C max.

Substrate Temperature +5 °C min. / +65 °C max.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

Concrete / brickwork / mortar screeds:
Must be installed on suitably primed, smooth, clean, dry, homogeneous and free from oils and grease, dust and loose or friable particles. Horizontal surfaces on podiums and roofs must be sloped > 1.5 %.

SUBSTRATE PREPARATION

The cold applied bituminous primer SikaBit® P-11 SA or SikaBit® P-12 AE (refer to relevant product data sheet) shall be applied onto the substrate before applying SikaBit® T-5185 PG SA.

APPLICATION METHOD / TOOLS

Unroll the roll and align it before torching or bonding. Each membrane must be laid parallel to each other and must be staggered by at least 1 m to avoid coinciding joints. The end-to-end overlaps must always be alternate, never arranged along a single line. Always start on the lowest level of the slope and with drains,

downpipes or other details.

The lateral overlap is the joint that runs in the direction of the length of the sheets and the end overlap is the joint along the shorter side of the sheet. At the end overlap, a corner of the membrane must be cut off at an angle of 45°. The overlaps must be welded with great care until a trickle of melted mixture about 1 cm wide can be seen coming out along the line of the overlap. Do not damage the joints with a trowel, spatula or other tools. All membranes must be overlapped by a minimum 100 mm.

Use a gas burner to heat the substrate and the backing film on the underside of membrane. When the backing film starts to melt, the membrane is ready to stick. Flame heating must bring retraction of the film, but heating the membrane any further can damage the polyester reinforcement (which melts at ca. 260°C) causing it to retract, undulate, curl or, in the most serious cases, to puncture. Insufficient heating, on the other hand, can cause insufficient adhesion to the base between the layers or on the overlaps. The torching of the rolls must heat the membrane and the sub-

strate at the same time, concentrating on the roll and the overlapping.

If a second layer is specified, it must be laid to straddle the overlap of the previous layer and must be bonded in complete adhesion. The burner flame must also heat the membrane already laid.

For detailed information (vertical application, detailing etc.) regarding application please refer to the Method Statement and Application Guide. Good industry practice applies.

IMPORTANT CONSIDERATIONS

Avoid damage to previously installed membranes during the torch-on of further layers of sheet membrane. Watertightness testing of podium and roof structures is recommended after completion of the membrane installation works according to the specified project requirements.

Flood testing maximum 48 hours at 50 mm depth.

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

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 Safety Data Sheet (SDS) 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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All products are supplied
under a management
system certified to conform
to the requirements of the
quality, environmental and
occupational health &
safety standards ISO 9001,
ISO 14001 and OHSAS
18001.

Product Data Sheet
SikaBit® T-5185 PG SA
May 2020, Version 03.01
02072510100000094

SikaBitT-5185PGSA-en-AE-(05-2020)-3-1.pdf

