

PRODUCT DATA SHEET

SikaShield® P58 T Testudo 5 mm

Plastomeric bituminous membrane surfaced with talc and flexible at -15 °C
(Formerly **Index** Testudo 5mm)

DESCRIPTION

SikaShield® P58 T Testudo 5 mm is an APP modified bituminous waterproofing membrane with a thickness of 5mm. It is reinforced with a non-woven polyester fabric dimensionally stabilised with glass fibre and is flexible at -15 °C. The top surface is coated with talc, which ensures the bond of the overlying layer and fast welding of the joints. The underside of the product has a burn-off film for easy torch-application.

USES

The Product is used as a waterproofing membrane for:

- Roads, Bridges and viaducts
- Basements and other below ground structures
- Underground car parks
- Car park decks
- Balconies and terraces under a heavy protection layer such as tiles or gravel.
- Flat and sloping roofs
- Inverted roofs
- Metal decks
- Wet areas
- Horizontal reinforced concrete slabs, decks and podiums
- Vertical reinforced concrete walls

The Product is used as a:

- Base sheet in multi-layer systems
- Single layer under heavy protection

CHARACTERISTICS / ADVANTAGES

- Easy to install by torching method
- Fully bonded
- Very good mechanical properties (tensile, tear, shear)
- High durability
- High impact resistance
- Fast and easy installation

APPROVALS / CERTIFICATES

- CE marking and declaration of performance based on EN 13707:2004+A2:2009 Flexible sheets for waterproofing — Reinforced bitumen sheets for roof waterproofing
- CE marking and declaration of performance based on EN 13969:2004/A1:2006 Flexible sheets for waterproofing — Bitumen damp proof sheets including bitumen basement tanking sheets
- AS4654.1- 2012- Approved for external above ground use (Test certificate available upon request)

PRODUCT INFORMATION

Composition	Composition	APP modified bitumen
	Reinforcing material	300 g/m ² non-woven polyester fabric dimensionally stabilised with glass fibre
Packaging	Roll width	1.0 m (EN 1848-1)
	Roll length	10.0 m
Refer to the current price list for available packaging variations.		
Shelf life	36 months from date of production	

Storage conditions The Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between +5 °C and +35 °C. Store in a vertical position. Do not stack pallets of the rolls on top of each other, or under pallets of any other materials during transport or storage. Always refer to packaging.

Appearance and colour	Top surface	Talc
	Bottom surface	Polyethylene film

Effective thickness	Effective thickness	5.0 mm ± 0.2 mm	(EN 1849-1)
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TECHNICAL INFORMATION

Maximum tensile force	Longitudinal (MD)	1300 N/50 mm ± 260 N/50 mm	(EN 12311-1)
	Transversal (CMD)	1100 N/50 mm ± 220 N/50 mm	

Elongation at maximum tensile force	Longitudinal (MD)	50 % ± 15 %	(EN 12311-1)
	Transversal (CMD)	50 % ± 15 %	

Resistance to tear	Longitudinal (MD)	250 N ± 75 N	(EN 12310-1)
	Transversal (CMD)	250 N ± 75 N	

Joint shear resistance	Longitudinal	1200 N/50 mm ± 240 N/50 mm	(EN 12317-1)
	Transversal	1000 N/50 mm ± 200 N/50 mm	

Flexibility at low temperature	≤ -15 °C	(EN 1109)
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Watertightness	Method B: 24 hours at 60 kPa	Pass	(EN 1928)
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Reaction to fire	Class E	(EN 13501-1)
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APPLICATION INFORMATION

Ambient air temperature	Minimum	+5 °C
	Maximum	+40 °C

Relative air humidity	Maximum	80 %
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Substrate temperature	Minimum	+5 °C
	Maximum	+40 °C

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.

FURTHER INFORMATION

- Guidelines and good practice for torch-applied membranes
- Method Statement - Roofing Build-up with Bituminous Membranes
- Method Statement - Bituminous membranes for below ground

ECOLOGY, HEALTH AND SAFETY

This product is an article as defined in article 3 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. A safety data sheet following article 31 of the same regulation is not needed to bring the product to the market, to transport or to use it. For safe use follow the instructions given in the product data sheet. Based on our current knowledge, this product does not contain SVHC (substances of very high concern) as listed in Annex XIV of the REACH regulation or on the candidate list published by the

European Chemicals Agency in concentrations above 0,1 % (w/w).

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

SYSTEM DESIGN

Consider the following when designing the system:

- The supporting structure must be of sufficient structural strength to support all new and existing layers of the system build-up.
- If used as a roof system, the complete system must be designed to withstand and be secured against wind uplift loadings.

SUBSTRATE CONDITION

The substrate surface must be uniform, firm, smooth and free of any sharp protrusion or burrs, clean, dry, free of grease, laitance, oil, dust and loosely adhering particles.

SUBSTRATE PREPARATION

PRIMING

Apply Sika® Igoflex P-10+ primer at a rate of 6-8m² per litre. Note: Consumption rates will vary depending on substrate type and porosity.

APPLICATION

IMPORTANT

- At low temperatures, take care unrolling to avoid damaging the membrane.
- Use suitable footwear to avoid puncturing the membrane.
- Do not apply to wet, damp or unclean surfaces
- Do not over-torch the membrane otherwise the polyester reinforcement (which melts at 260 °C) will be damaged making the membrane un-useable.
- If membrane is insufficiently heated, this can cause reduced adhesion to the substrate, between layers or on the overlaps. If this occurs, un-bonded areas must be lifted and re-torched.
- If a seasonal symbol is printed on the roll's label, it is advisable to use the membrane during the indicated season.

ALIGNMENT

Unroll, align and re-roll correctly before torching.

OVERLAPS

Side: 100mm. End: 150 mm.

FASTENING

Fidia Polyester when used as a roofing base sheet, can be mechanically fixed on the substrate by using the correct type of fasteners. Contact Sika Technical Services for additional information.

TORCHING

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. Roll the membrane forward and press firmly against the substrate to bond. Ensure a bead of melted bitumen is visible along the full length of the overlap sides

HOT MELT BITUMEN ADHESIVE BONDING

Choosing the right hot melt

Note: Different hot melt products are compatible with this membrane. Contact Sika® Technical Services for information on choosing the right one for your project.

Preconditions

The hot melt has been applied to the substrate and is still hot.

- Apply the membrane onto the hot melt.
- Roll the surface of the applied membrane with a roller from the centre to the edge to remove any air bubbles.
- Seal the overlaps with hot melt or by torching.

DETAILING

All details such as internal and external corners, up-stands, vent pipes, drains, support metalwork etc. must be cut and sealed effectively. Detailing must follow the recommended guidelines and good practice for torch-applied membranes.

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.

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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