

PRODUCT DATA SHEET

SikaShield® P44 T Fidia 4 mm

Plastomeric bituminous membrane surfaced with talc and flexible at -10 °C
(Formerly **Index Fidia 4mm**)

DESCRIPTION

SikaShield® P44 T Fidia 4 mm is an APP modified bituminous waterproofing membrane with a thickness of 4 mm. It is reinforced with a non-woven polyester fabric dimensionally stabilised with glass fibre and is flexible at -10 °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:

- Balconies and terraces under a heavy protection layer such as tiles or gravel.
- Flat and sloping roofs under protective layers or ballast
- Wet areas
- Basements and other below ground structures
- Horizontal reinforced concrete slabs, decks, podiums and protrusions
- Vertical reinforced concrete walls

The Product is used as a:

- Base sheet in multi-layer systems

Please note:

- The Product is not suitable for roofs permanently exposed to UV radiation.

CHARACTERISTICS / ADVANTAGES

- Easy to install by torching method
- Fully bonded
- Good mechanical properties (tensile, tear, shear)
- 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 — Definitions and characteristics
- 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 — Definitions and characteristics
- AS4654.1- 2012- Approved for external above ground use (Test certificate available upon request)

PRODUCT INFORMATION

Composition	Composition	APP modified bitumen
	Reinforcing material	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 current price list for 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	4.0 mm ± 0.2 mm	(EN 1849-1)

TECHNICAL INFORMATION

Maximum tensile force	Longitudinal (MD)	450 N/50 mm ± 90 N/50 mm	(EN 12311-1)
	Transversal (CMD)	400 N/50 mm ± 80 N/50 mm	
Elongation at maximum tensile force	Longitudinal (MD)	40 % ± 15 %	(EN 12311-1)
	Transversal (CMD)	40 % ± 15 %	
Resistance to tear	Longitudinal (MD)	150 N ± 45 N	(EN 12310-1)
	Transversal (CMD)	150 N ± 45 N	
Joint shear resistance	Longitudinal	350 N/50 mm ± 70 N/50 mm	(EN 12317-1)
	Transversal	300 N/50 mm ± 60 N/50 mm	
Flexibility at low temperature	≤ -10 °C		(EN 1109)
Flow resistance	100 °C–10 °C		(EN 1110)
Watertightness	Method B: 24 hours at 60 kPa	Pass	(EN 1928)
Reaction to fire	Class E		(EN 13501-1)

APPLICATION INFORMATION

Ambient air temperature	Minimum	+5 °C
	Maximum	+40 °C
Relative air humidity	Maximum	80 %
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 roof system:

- The supporting structure must be of sufficient structural strength to support all new and existing layers of the roof build-up.
- The complete roof system must be designed to withstand and be secured against wind uplift loadings.
- The wind uplift resistance of the adhered roofing assembly is limited by the adhesion strength of the Product to the substrate.

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

DETAILING

All details such as internal and external corners, upstands, 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.

MAINTENANCE

Check the functionality of the auxiliary works, flashings, drainage outlets, overflow pipes etc. Remove any leaves, moss and other vegetation, which could cause ponding on the roof and overload the drainage system. To maintain the function of the roof waterproofing membrane during its lifespan, it is advisable to arrange periodically for inspection of the membrane and detailing.

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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