

## PRODUCT DATA SHEET

# SikaShield® E74 S SA 3 mm

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118 mil SBS-modified bituminous base ply, self-adhered

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## PRODUCT DESCRIPTION

SikaShield® E74 S SA 3 mm is a 118 mil thick SBS-modified self-adhered bituminous membrane. It is reinforced with a non-woven polyester fabric dimensionally stabilized with fiberglass and is flexible at -22 °F (-30 °C). The top surface is coated with a sand surface, which ensures the bond of the overlying layer. The underside has a removable liner over the adhesive compound for easy application.

## USES

SikaShield® E74 S SA 3 mm is used as a base or intermediate ply roofing membrane for:

- Flat and sloped roofs
- Inverted roofs
- New construction and refurbishment projects
- Single slab or prefabricated
- Stressed skin structures

## CHARACTERISTICS / ADVANTAGES

- Dual reinforcement
- Flame-free application
- Good adhesion in cold temperatures
- Accommodates a wide range of roof system, deck types and substrate combinations
- High durability
- Good mechanical properties (tensile, tear, shear)

## APPROVALS / STANDARDS

- Meets or exceeds the ASTM D6163, Type I, Grade S
- Underwriters Laboratory (UL)
- FM Global

## PRODUCT INFORMATION

Chemical Base	SBS-modified bitumen		
Reinforcing Material	Non-woven spunbond polyester fabric stabilized with fiberglass		
Packaging	Roll width	39.4" (1.0 m)	(ASTM D5147)
	Roll length	32.8 ft (10.0 m)	
Shelf Life	12 months from date of production		
Storage Conditions	The Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between 55°F (12°C) and 80°F (26°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.		
Top surface	Sand		
Bottom Surface	Removable Film		
Thickness	118 mil (3.0 mm)		(ASTM D5147)
Weight	80 pounds per roll		

## TECHNICAL INFORMATION

Tensile Strength	<b>At 23 °C, before heat:</b>		(ASTM D5147)
	Longitudinal (MD)	47.1 lbf/in	
	Transversal (CMD)	84.9 lbf/in	
	<b>At -18 °C, before heat:</b>		(ASTM D5147)
	Longitudinal (MD)	103 lbf/in	
	Transversal (CMD)	73.8 lbf/in	
Elongation	<b>At 23 °C, before heat:</b>		(ASTM D5147)
	Longitudinal (MD)	69.8%	
	Transversal (CMD)	70.7%	
	<b>At -18 °C, before heat:</b>		(ASTM D5147)
	Longitudinal (MD)	49.4%	
	Transversal (CMD)	66.4%	
Dimensional Stability	Longitudinal (MD)	0.0 %	(ASTM D5147)
	Transversal (CMD)	0.0 %	
Tear Strength	Longitudinal (MD)	135 lbf	(ASTM D5147)
	Transversal (CMD)	73.1 lbf	
Flow resistance	+215 °F (+102 °C)		(ASTM D5147)
Low Temperature Bend	-0.4 °F (-18 °C)		(ASTM D5147)

## APPLICATION INFORMATION

Ambient Air Temperature	Minimum	41°F (5°C)
	Maximum	86°F (30°C)
Relative Air Humidity	Maximum 80%	

## BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

## AVAILABILITY/WARRANTY

### AVAILABILITY

From Sika Corporation – Roofing Authorized Applicators when used within SikaShield systems.

### WARRANTY

Upon successful completion of the installed roof by the Sika Authorized Applicator in compliance with Sika requirements, Sika Corporation will provide a warranty to the Building Owner via the Sika Authorized Applicator.

## LIMITATIONS

- At low temperatures, the membrane becomes less flexible. Be careful when unrolling to avoid damaging the membrane.
- Footwear with spikes or sharp protrusions may puncture the membrane. Use footwear with a flat profile when walking over the membrane.
- When applying the membranes at temperatures lower than 41°F (5°C), use heating equipment to ensure that the substrate temperature is within the given temperature range.
- For slopes with an inclination greater than 15%, multi-layered roofs must be carefully designed and, if necessary, integrated with mechanical fastenings or termination bars.
- If a seasonal symbol is printed on the roll's label, it is advisable to use the membrane during the indicated season.
- When applying the membrane at high temperatures, the bituminous compound will become 'tacky' and may restrict laying operations.

## ENVIRONMENTAL, HEALTH AND SAFETY

### REGULATION (EC) NO 1907/2006 - REACH

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

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

## SUBSTRATE PREPARATION

A primer must be applied to all substrates unless otherwise specified by the Sika Technical Service.

1. Apply the appropriate Sika® primer at the recommended consumption rate to the prepared surface. Refer to the individual Product Data Sheet of the primer.
2. Allow the primer to fully dry before installing the membrane.

## APPLICATION

To avoid coinciding joints, lay the membranes parallel to one another, align it properly, ensure the specified overlaps are followed, and then re-roll it before application.

## MEMBRANE OVERLAPS

- Overlap the membranes by a minimum of 4" (100 mm) on the sides and 6" (150 mm) on each end.
- At the end overlap, cut off a corner measuring 4" (100 mm) per side at an angle of 45°.
- End laps must be staggered 18" (46 cm) apart.
- Offset cap sheet side and end laps so they are positioned at least 12" (28 cm) away from any base ply laps.
- A minimum 20 lb (9 kg) roller must be used on all sides and end laps, following immediately behind the heat welding. Apply uniform pressure across the lap area while the bituminous compound is warm to ensure a positive bond.
- A continuous bead of asphalt approximately 1/4 inch wide should be visible at all laps after application.
- The edge of the seam must be left untooled (not buttered).

**IMPORTANT: DO NOT STACK LAPS!**

## SELF-ADHESIVE BONDING

1. At one end of the sheet, remove the first 18-24" of release film and press the membrane into place with firm, even pressure.
2. Gradually remove the remaining release film, applying pressure from the center to the edges.
3. Roll the entire surface area of the applied membrane with a heavy roller to ensure any air bubbles are removed.

### *Suitable substrates:*

- Concrete
- Gypsum coverboard
- Metal substrates
- Rigid coverboards
- Wood
- Bituminous membranes with a smooth surface
- Tiles
- Brick masonry
- Cementitious screeds
- Plasterboards
- Plasters
- Foamed concrete blocks, if properly primed (Contact Sika Technical Services for more information)

## DETAILING

Use a sharp knife to cut in all details such as internal and external corners, upstands, vent pipes, drains, support metalwork etc.

Refer to the relevant method statement for further information on detailing.

## MAINTENANCE

Standard maintenance of SikaShield system should include regular inspections of flashings, drains and terminations sealants at least twice a year and after each storm.

## OTHER RESTRICTIONS

See Legal Disclaimer.

## LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at [usa.sika.com](http://usa.sika.com) or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs.

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**Product Data Sheet**  
SikaShield® E74 S SA 3 mm  
December 2025, Version 01.02  
020920011980000129

SikaShieldE74SSA3mm-en-US-(12-2025)-1-2.pdf

