

## PRODUCT DATA SHEET

# SikaShield® E74 PE SA 3 mm

3 mm elastomeric self-adhesive bituminous membrane flexible at -25 °C

### DESCRIPTION

SikaShield® E74 PE SA 3 mm is an SBS modified bituminous waterproofing self-adhesive membrane with a thickness of 3 mm. It is reinforced with a non-woven polyester fabric dimensionally stabilised with glass fibre and is flexible at -25 °C. The top surface is coated with a polyethylene foil, which ensures the bond of the overlying layer. The underside has a removable liner over the adhesive compound for easy application.

### USES

The Product is used as a waterproofing membrane for:

- Flat and sloping roofs under protective layers or ballast

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.

### PRODUCT INFORMATION

<b>Composition</b>	Composition	SBS modified bitumen	
	Reinforcing material	non-woven polyester fabric dimensionally stabilised with glass fibre	
<b>Packaging</b>	Roll width	1.0 m	(EN 1848-1)
	Roll length	8.0 m	
Please contact our customer service, for information of what packaging sizes are sold in Denmark.			
<b>Shelf life</b>	12 months from date of production		
<b>Storage conditions</b>	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.

<b>Appearance and colour</b>	Top surface	Polyethylene film	
	Bottom surface	Removable foil	
<b>Effective thickness</b>	Effective thickness	3.0 mm ± 0.2 mm	(EN 1849-1)

## TECHNICAL INFORMATION

<b>Maximum tensile force</b>	Longitudinal (MD)	400 N/50 mm ± 80 N/50 mm	(EN 12311-1)
	Transversal (CMD)	300 N/50 mm ± 60 N/50 mm	
<b>Elongation at maximum tensile force</b>	Longitudinal (MD)	35 % ± 15 %	(EN 12311-1)
	Transversal (CMD)	40 % ± 15 %	
<b>Resistance to tear</b>	Longitudinal (MD)	140 N ± 42 N	(EN 12310-1)
	Transversal (CMD)	140 N ± 42 N	
<b>Joint shear resistance</b>	Longitudinal	350 N/50 mm ± 70 N/50 mm	(EN 12317-1)
	Transversal	250 N/50 mm ± 50 N/50 mm	
<b>Flexibility at low temperature</b>	≤ -25 °C		(EN 1109)
<b>Watertightness</b>	Method B: 24 hours at 60 kPa	Pass	(EN 1928)
<b>Permeability to water vapour</b>	μ = 100'000		(EN 1931)
<b>Reaction to fire</b>	Class E		(EN 13501-1)

## APPLICATION INFORMATION

<b>Ambient air temperature</b>	Minimum	+5 °C
	Maximum	+40 °C
<b>Relative air humidity</b>	Maximum	80 %
<b>Substrate temperature</b>	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

- Method Statement - Roofing Build-up with Bituminous Membranes
- Method Statement - Bituminous Membranes for Safe2Torch systems

## 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 this 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

##### Primer selection

Note: For information on selecting the appropriate primer, contact Sika technical service.

1. Apply the appropriate Sika® primer with the required consumption onto the prepared dry surface.  
Note: Refer to the individual Product Data Sheet of the primer.
2. Allow the primer to dry before membrane installation.

### APPLICATION

#### IMPORTANT

##### Unrolling at low temperatures

At low temperatures, the membrane becomes less flexible.

1. Be careful when unrolling to avoid damaging the membrane.

#### IMPORTANT

##### Damage through footwear

Footwear with spikes or sharp protrusions may puncture the membrane.

1. Use footwear with a flat profile when walking over the membrane.

#### IMPORTANT

##### Application on sloped surfaces

For slopes with an inclination greater than 15 %, multi-layered roofs must be carefully designed and, if necessary, integrated with mechanical fastenings.

#### IMPORTANT

##### Application at less than +5 °C

When applying the membranes at temperatures lower than +5 °C, use heating equipment to ensure that the substrate temperature is within the given temperature range.

#### IMPORTANT

##### Application in humid/wet conditions

When applying the membranes in wet or humid conditions, use heating equipment to ensure that the sub-

strate is dry before application.

#### IMPORTANT

##### Vertical application

Sheets applied vertically must be secured mechanically at the end.

##### Seasonal symbol

Note: If a seasonal symbol is printed on the roll's label, it is advisable to use the membrane during the indicated season.

##### Tackiness at high temperatures

Note: When laying the membrane at high temperatures, the integral adhesive will become 'tacky' and may restrict laying operations.

#### ALIGNMENT

#### IMPORTANT

##### Avoid coinciding joints

To avoid coinciding joints, lay the membranes parallel to one another. When applying on another bituminous membrane, make sure to straddle the overlaps of the previous layer.

1. Unroll the membrane.
2. Align the membrane.
3. Re-roll the membrane before application.

#### MEMBRANE OVERLAPS

1. Overlap the membranes by a minimum of 100 mm on the sides and 150 mm on each end or as specified by the supplier.
2. At the end overlap, cut off a corner measuring 100 mm per side at an angle of 45°.

#### SELF-ADHESIVE BONDING

1. At one end of the sheet, peel away part of the release liner from the underside and bond this end to the substrate.
2. Continue to peel away the release liner sideways from the rest of the sheet membrane and bond it to the substrate.
3. Roll the entire surface area of the applied membrane with a heavy roller to ensure any air bubbles are removed.

##### Suitable substrates

- Concrete
- Wood
- Metal
- 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

1. 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

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.

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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

Any information or suggestions for use concerning Sika's products, which we either in writing or orally have given buyers or end-users of the product, have been given in good faith based on our own experiences and based on approved praxis and the technological and scientific knowledge on the time of giving such suggestions and information, which are given without any type of guarantees, and which do not lead to any further responsibility from Sika Danmark A/S, besides what is stated in the sales agreement in question. The buyer or end-user should themselves investigate or otherwise make sure, that our products are suitable for the use in question and further make sure that the products are kept and used correct and in agreement with the published rules and considering the actual conditions in order to avoid damages or less satisfactory results. Any order is accepted and any deliverance is affected according to the general terms of sales and delivery from Sika Danmark A/S, which are considered known and accepted, and which could be handed out when asked for. Our catalogues are not up-dated automatically. The present product data sheet is only for use in Denmark. Values stated in the present product data sheet should be seen as recommended, unless stated otherwise.

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