

## PRODUCT DATA SHEET

## SikaShield® P47 T 5 mm

Plastomeric bituminous membrane surfaced with talc and flexible at -10 °C

## DESCRIPTION

SikaShield® P47 T 5 mm is an APP modified bituminous waterproofing membrane with a thickness of 5 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 or sloped roofs with up to 15 % gradient
- Inverted roofs
- Car park decks
- Underground car parks
- Roads, rail bridges and viaducts
- Wet areas
- Basements and other below ground structures
- 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
- Good durability
- High impact resistance
- Fast and easy installation

## APPROVALS / STANDARDS

- 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
- CE marking and declaration of performance based on EN 14695:2010 Flexible sheets for waterproofing — Reinforced bitumen sheets for waterproofing of concrete bridge decks and other trafficked areas of concrete — Definitions and characteristics

## PRODUCT INFORMATION

Chemical Base	Composition	APP modified bitumen	
	Reinforcing material	250 g/m <sup>2</sup> 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.		

Appearance / Colour	Top surface	Talc
	Bottom Surface	Polyethylene film
Shelf Life	36 months from date of production	
Storage Conditions	<p>The Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between +5 °C and +35 °C. Protect the Product from direct weather exposure and sunlight. Store in a vertical position. Pallets may be stacked on top of the rolls if all following conditions are met:</p> <ul style="list-style-type: none"> <li>▪ The rolls have a wooden board on top, separating them from the pallet above.</li> <li>▪ The weight of the pallet above is equal to or less than the weight of the rolls.</li> </ul> <p>Always refer to packaging.</p>	

## TECHNICAL INFORMATION

Resistance to tear (nail shank)	Longitudinal (MD)	250 N ± 75 N	(EN 12310-1)
	Transversal (CMD)	250 N ± 75 N	
Joint Shear Resistance	Longitudinal (MD)	900 N/50 mm ± 180 N/50 mm	(EN 12317-1)
	Transversal (CMD)	800 N/50 mm ± 160 N/50 mm	
Reaction to Fire	Class E		(EN 13501-1)
Water Tightness	Method B, 24 hours at 60 kPa	Pass	(EN 1928)
Flow Resistance	≥ 120 °C		(EN 1110)
Flexibility at low temperature	≤ -10 °C		(EN 1109)
Maximum tensile force	Longitudinal (MD)	1000 N/50 mm ± 200 N/50 mm	(EN 12311-1)
	Transversal (CMD)	900 N/50 mm ± 180 N/50 mm	
Elongation at maximum tensile force	Longitudinal (MD)	50 % ± 15 %	(EN 12311-1)
	Transversal (CMD)	50 % ± 15 %	

## 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 DOCUMENTS

### Application of torch-applied membranes

Note: Always make reference to local regulations, standards, guidelines and established practice when using torch-applied membranes.

- Method Statement - Roofing build-up with bituminous membranes
- Method Statement — Bituminous membranes for below ground

## ECOLOGY, HEALTH AND SAFETY

We follow PLC -Priority Chemical List and PICCS- Philippine Inventory of Chemicals and Chemical Substances but we don't indicate on our local PDS.

## 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

#### 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

#### Damage through overheating

The polyester melts at +260 °C. If it is damaged through overheating, the membrane becomes unusable.

1. Keep moving the flame while torching to avoid overheating the membrane.

### IMPORTANT

#### Reduced adhesion through insufficient heating

Make sure to heat the membrane sufficiently. If it is not sufficiently heated, the adhesion to the substrate, between layers or on the overlaps will be reduced.

1. If the membrane does not adhere to other elements, lift and retorch the unbonded areas.

### 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 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.

#### 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°.

### FASTENING

When used as a roofing sheet, the membrane can be mechanically fixed to the substrate by using the correct type of fasteners.

The number of fixings, type and position depend on wind uplift forces to be resisted, pull-out strength of the fixing screws, the elastic limit of the membrane and the appropriate safety factors.

Contact Sika Technical Service for additional information.

### Suitable substrates for fastening

- Concrete
- Wood
- Metal
- Perlite screed
- Bituminous membranes
- Coatings (check the compatibility)

### TORCHING

1. Heat the substrate and the backing film on the underside of the membrane with a gas burner. When the backing film starts to melt, the membrane is ready to stick.
2. Roll the heated membrane forward and press it firmly against the substrate to bond it.
3. Make sure a bead of melted bitumen is visible along the full length of the overlap sides and ends when laying.

### Suitable substrates for torching

- Concrete
- Perlite screed
- Bituminous membranes with a smooth surface
- Coatings (check the compatibility)
- Brick masonry
- Cementitious screeds

### 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.

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

### Suitable substrates

- Concrete
- Bituminous membranes with a smooth surface
- Coatings (check the compatibility)
- Brick masonry
- Cementitious screeds

### 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.

## LOCAL RESTRICTIONS

Please note that as a result of specific local regulations the performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

## 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.

#### Sika Philippines Inc.

888 Cayetano Avenue,  
C5 Extension, Brgy. Palingon - Tipas  
Taguig City, Philippines 1630  
Telephone no. +63 2 8790-9800  
Fax no. +63 2 8790-9828

#### Product Data Sheet

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