

## PRODUCT DATA SHEET

# SikaShield® P44 T HP 3 mm

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

### PRODUCT DESCRIPTION

SikaShield® P44 T HP 3 mm is an APP modified bituminous waterproofing membrane with a thickness of 3 mm. It is reinforced with a non-woven polyester fabric dimensionally stabilized with glass fibre and is flexible at -10 °C. The top surface is coated with talc, which ensures the bond of the overlying layer. The underside of the product has a burn-off film for easy torch-application.

### USES

The Product is used as base sheet in multi-layer systems for:

- Flat and sloping roofs
- New construction and refurbishment projects
- As a base sheet in multi-layer systems

### PRODUCT INFORMATION

<b>Chemical Base</b>	Composition Reinforcing material	APP modified bitumen non-woven polyester fabric dimensionally stabilised with glass fibre
<b>Reinforcing Material</b>	Non-woven polyester fabric stabilized with glass fibre	
<b>Packaging</b>	Roll width	1.0 m (EN 1848-1)
	Roll length	8.0 m
	Refer to current price list for packaging variations.	
<b>Shelf Life</b>	24 months from date of production	
<b>Storage Conditions</b>	<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>	

### CHARACTERISTICS / ADVANTAGES

- Fully bonded
- Good durability
- High impact resistance
- Very good mechanical properties (tensile, tear, shear)
- Good flexibility

### 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

Always refer to packaging.

<b>Appearance / Colour</b>	Top surface	Talc	
	Bottom surface	Polyethylene film	
<b>Thickness</b>	Effective thickness	4.0 mm ± 0.2 mm	(EN 1849-1)
<b>Mass per unit area</b>	Mass per unit area	3.4 kg/m <sup>2</sup> ± 0.34 kg/m <sup>2</sup>	(EN 1849-1)
<b>Maximum tensile force</b>	Longitudinal (MD)	700 N/50 mm ± 140 N/50 mm	(EN 12311-1)
	Transversal (CMD)	500 N/50 mm ± 100 N/50 mm	
<b>Elongation at maximum tensile force</b>	Longitudinal (MD)	40 ± 15 [%]	(EN 12311-1)
	Transversal (CMD)	45 ± 15 [%]	
<b>Resistance to Tearing (nail shank)</b>	Longitudinal (MD)	160 N ± 48 N	(EN 12310-1)
	Transversal (CMD)	200 N ± 60 N	
<b>Joint Shear Resistance</b>	Longitudinal	600 N/50 mm ± 120 N/50 mm	(EN 12317-1)
	Transversal	400 N/50 mm ± 80 N/50 mm	
<b>Flexibility at low temperature</b>	≤ -10 °C		(EN 1109)
<b>Water Tightness</b>	Method B: 24 hours at 60 kPa	Pass	(EN 1928)
<b>UV Exposure</b>	SikaShield® P44 T HP 3 mm must be protected from damage during any ongoing site activities. The membrane can only be used as temporary waterproofing for 2 weeks before installation of a suitable cap sheet is required.		
<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

## VALUE BASE

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.

## 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).

## 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

### 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. All substrates must be primed with either SikaRoof® Primer-610 Spray or SikaRoof® Primer-600 UK prior to the application of the membrane at the required consumption onto the prepared dry surface.
2. Note: Refer to the individual Product Data Sheet of the primer.
3. 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 reinforcement 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.

### SIKA LIMITED

Watchmead  
Welwyn Garden City  
Hertfordshire, AL7 1BQ  
Tel: 01707 394444  
Web: [www.sika.co.uk](http://www.sika.co.uk)  
Twitter: @SikaLimited



### Product Data Sheet

SikaShield® P44 T HP 3 mm  
November 2023, Version 01.01  
020920011990002087

### 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.

#### 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.

#### Suitable substrates for torching

- Concrete
- Cementitious screeds
- Bituminous membranes with a smooth surface
- Brick masonry
- Cementitious screeds

## 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 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.

SikaShieldP44THP3mm-en-GB-(11-2023)-1-1.pdf