

## PRODUCT DATA SHEET

# SikaShield® VB P41 S 3 mm

Plastomeric bituminous roof vapour control layer aluminium reinforced

### DESCRIPTION

SikaShield® VB P41 S 3 mm is an APP modified bituminous roofing vapor control layer with a thickness of 3 mm and flexible at -10 °C. It is reinforced with an aluminium foil and glass fibre to provide a barrier to the passage of vapour. The top surface is covered with sand to improve the bonding of the overlying layer or to bond the insulation boards with cold adhesives or by mechanical fixation. The underside of the product has a burn-off film for easy torch-application.

### USES

The Product is used as a waterproofing membrane for:

- Flat and sloped roofs
- High humidity roof spaces ( +20 °C ≤ 80 % RH )

The Product is used as a:

- Vapour control layer
- Base sheet in multi-layer systems

Please note:

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

### FEATURES

- Thickness: ~3,0 mm
- Good water vapour barrier
- Top surface finish: sand
- Good flexibility at -10 °C
- Good mechanical properties (tensile, tear, shear)
- High elongation
- High dimensional stability
- Easy to install by torching method

### CERTIFICATES AND TEST REPORTS

CE marking and declaration of performance based on EN 13970:2004/A1:2006 Flexible sheets for waterproofing — Bitumen water vapour control layers — Definitions and characteristics.

### PRODUCT INFORMATION

<b>Composition</b>	Composition Reinforcing material	APP modified bitumen Aluminium foil and glass fibre
<b>Packaging</b>	Roll width	1.0 m (EN 1848-1)
	Roll length	10.0 m
<b>Appearance and colour</b>	Top surface	Sand
	Bottom Surface	Polyethylene foil
<b>Shelf life</b>	24 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. 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:

- The rolls have a wooden board on top, separating them from the pallet above.
- The weight of the pallet above is equal to or less than the weight of the rolls.

Always refer to packaging.

<b>Effective thickness</b>	Effective thickness	3.0 mm ± 0.2 mm	(EN 1849-2)
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## TECHNICAL INFORMATION

<b>Tensile strength</b>	Longitudinal (MD)	450N/50 mm ± 90 N/50 mm	(EN 12311-1)
	Transversal (CMD)	350N/50 mm ± 70 N/50 mm	
<b>Elongation</b>	Longitudinal (MD)	3 % ± 1 %	(EN 12311-1)
	Transversal (CMD)	3 % ± 1 %	
<b>Tear strength</b>	Longitudinal (MD)	70 N ± 21 N	(EN 12310-1)
	Transversal (CMD)	70 N ± 21 N	
<b>Reaction to fire</b>	Class E		(EN 13501-1)
<b>Water-vapour transmission rate</b>	μ = 100 000 ± 20 000		(EN 1931)
<b>Watertightness</b>	Method B, 24 hours at 60 kPa	Pass	(EN 1928)
<b>Flexibility at low temperature</b>	≤ -10 °C		(EN 1109)

## APPLICATION INFORMATION

<b>Ambient air temperature</b>	Maximum	+40 °C
	Minimum	+5 °C
<b>Substrate temperature</b>	Maximum	+40 °C
	Minimum	+5 °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.

## 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 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°.

### 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.

### 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

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## MAINTENANCE INSTRUCTIONS

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

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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