BUILDING TRUST

PRODUCT DATA SHEET

SikaShield® VB P42 SF 3 mm

118 mil bituminous vapor barrier, cold/mop-applied

PRODUCT DESCRIPTION

SikaShield® VB P42 SF 3 mm is a 118 mil thick APP modified bituminous roofing vapor control layer. It is reinforced with glass fiber to provide a barrier to the passage of vapor. The top surface is coated with a smooth surface, which ensures the bond of the overlying layer. The underside of the product has a burn-off film for easy torch application or a non-woven polypropylene fabric for cold or hot application.

USES

The Product is used as a vapor barrier for:
- Flat and sloped roofs
- High humidity roof spaces (+20 °C / 68 °F ≤ 80 % RH)

CHARACTERISTICS / ADVANTAGES

- It can be left exposed for up to 12 months
- Vapor diffuser and waterproofing incorporated in the same membrane
- High resistance to water vapor movement
- Easy to install
- Fully bonded
- Good durability

PRODUCT INFORMATION

Chemical Base	APP-modified bitumen		
Reinforcing Material	Glass fiber		
Packaging	Roll width	39.4" (1.0 m)	(ASTM D5147)
	Roll length	32.8 ft (10.0 m)	
Shelf Life	36 months from date of production		
Storage Conditions	The Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between 41°F (5°C) and 95°F (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.		
Top surface	Sand		
Bottom Surface	Non-woven olypropylene fabric (SF). The "S" version features a polyethylene burn-off foil for torch application		
Thickness	118 mil (3 mm)		(ASTM D5147)
Tensile Strength	Longitudinal (MD)	52.8 lbf/in	ASTM D5147)
	Transversal (CMD)	23.3 lbf/in	
Elongation	Longitudinal (MD)	3.3 %	ASTM D5147)
	Transversal (CMD)	3.2 %	
Permeability to Water Vapor	0.377 ng/(Pa·s·m²) 0.007 Perms		(ASTM E96)
Low Temperature Bend	≤ 14°F (-10°C)		(ASTM D5147)

APPLICATION INFORMATION

Ambient Air Temperature	Minimum	41°F (5°C)
	Maximum	104°F (40°C)
Relative Air Humidity	Maximum	80 %
Substrate Temperature	Minimum	41°F (5°C)
	Maximum	104°F (40°C)

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 for use within Sarnafil or Sikaplan 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 any damage.
- 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.
- If a seasonal symbol is printed on the roll's label, it is advisable to use the membrane during the indicated season.
- When laying the membrane at high temperatures, the integral adhesive 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

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.

APPLICATION

ALIGNMENT

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 4" (100 mm) on the sides and 6" (150 mm) on each end or as specified by the supplier.
2. At the end overlap, cut off a corner measuring 4" (100 mm) per side at an angle of 45°.

COLD ADHESIVE BONDING

1. Apply the recommended adhesive at the required consumption onto the surface.
2. Apply the membrane onto the adhesive while still fresh. It cannot be cured.
3. Roll the surface of the applied membrane with a roller from the center to the edge to remove any air bubbles.
4. Seal the overlaps with hot melt or by torching/welding.

Suitable substrates for cold adhesion

- Concrete
- Metal
- Perlite screed
- Bituminous membranes with a smooth surface
- Brick masonry
- Cementitious screeds
- Plasterboards
- Plasters

HOT ADHESIVE BONDING (MOPPING)

Apply the hot melt at the required consumption onto the surface.

1. Note: Refer to the individual Product Data Sheet of the hot melt adhesive.
2. Apply the membrane onto the hot melt while still hot.
3. Roll the surface of the applied membrane with a roller from the center to the edge to remove any air bubbles.
4. Seal the overlaps with hot melt or by torching.

Suitable substrates for mopping

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

NOTE: This membrane is compatible with different asphalt types. Contact Sika® Technical Services for information on choosing the right one for your project.

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 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. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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