

# PRODUCT DATA SHEET

## SikaShield® SK2000

### SELF ADHESIVE WATERPROOFING MEMBRANE



#### DESCRIPTION

SikaShield® SK2000 is a fully bonded, self-adhesive SBS (styrene butadiene styrene) modified bituminous sheet with high tack resins, waterproofing membrane for building use externally and internally.

SikaShield® SK2000 is highly resistance to impact and stretching for protection against damp, water under pressure and liquid pollutants.

The high density polythene film on the top surface gives the membrane excellent adherence and mechanical strength.

#### USES

- Flat roof Sealing
- Basement Tanking
- Parking Decks
- Moisture Barrier
- Tunnels
- Precast Joints

#### PRODUCT INFORMATION

<b>Packaging</b>	1.00m x 20.00m, 33 kg/roll
<b>Shelf Life</b>	12 months from the date of production
<b>Storage Conditions</b>	<ul style="list-style-type: none"> <li>▪ Rolls of the material should be stored in a dry place, protected from direct sun light.</li> <li>▪ Rolls should be preferably stored upright on pallets in a 1-row height. If double stacking of pallets are required in store, please provide suitable timber plank for pallets to be stacked up, Do not over-stack excessively if storage periods are very long.</li> <li>▪ Falls or other mechanical impacts should be avoided during transportation and storage.</li> </ul>
<b>Thickness</b>	1.5mm (2.0mm - available on request)

#### CHARACTERISTICS / ADVANTAGES

- Thermoplastic
- Rodent proof
- Fully bonded
- For large areas
- Fast & ideal installation
- Cold-applied – no fire hazard
- No expensive site equipment
- Resistant to root penetration

#### APPROVALS / STANDARDS

Certified Green Label by Singapore Green Building Council, 'Leader'

## TECHNICAL INFORMATION

<b>Resistance to Static Puncture</b>	214N	(ASTM E154:88)
<b>Tensile Strength</b>	> 7 MPa (Trans)	(SS374:1994)
	<b>Tensile strength - Film</b> 45,000 KPa	(ASTM D412:92)
	<b>Tensile strength at lap</b> All Samples tested failed outside the lap	(SS374:1994)
<b>Elongation</b>	<b>Elongation at Break</b> > 450% (Trans) > 500% (Long)	(SS374:1994)
	<b>Elongation - Ultimate failure of rubberized asphalt</b> > 1000%	(ASTM D412:92)
<b>Maximum Resulting Movement</b>	<b>Pliability - 180° bend over 25mm diameter mandrel followed by 360° bend over the same mandrel in the opposite direction</b> Passed	(ASTM D146:86)
<b>Adhesion in Peel</b>	<b>Adhesion to primed concrete</b> 4.9 N/mm <sup>2</sup>	(ASTM D1000)
	<b>Adhesion to steel</b> 5.8 N/mm <sup>2</sup>	(ASTM D1000)
<b>Dimensional Stability</b>	< 0.2% (At 70°C for 6 hours)	(SS374:1994)
<b>Service Temperature</b>	<b>Maximum Temperature</b> +95°C	
<b>Flexibility at low temperature</b>	-20°C	
<b>Water Absorption</b>	< 0.1% (24 hours)	(ASTM D570:81)
<b>Resistance to Water Penetration</b>	Pass at 70m	
<b>Water Vapour Transimission</b>	< 0.1 g/m <sup>2</sup> /hr	(SS374:1994)
<b>Durability of Water Tightness against Chemicals</b>	<b>Non-adhesive side of membrane</b> No change or only slight change in yield stress and/ or elongation	(Dilute acids, Dilute alkalis, Sulphates, Chloride, Fuel/Oil)

## 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

SikaShield® SK2000 is not affected by exposure to salt, fungi, bacteria and other organism

## LIMITATIONS

### PROTECTION OF MEMBRANE

- For horizontal installations of Davco SK2000S, the membrane may be protected from heavy construction activities using a 6mm thick protection board or using a cement sand screed prior to casting of reinforced structural slab.
- For vertical installations, the membrane should be protected from damage during backfilling.

## ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

## APPLICATION INSTRUCTIONS

### SUBSTRATE QUALITY

- All substrates must be kept clean, dry, free from dust, grease, oil, laitance and any other loose contaminants.
- All potholes, cracks, honeycombs must be patched or filled up with high strength non-shrink mortar. All substrates must be structurally sound.

### SUBSTRATE PREPARATION

#### Primer

Prime all surface with a layer of Davco SK Primer to seal up pinholes and enhance adhesion. Apply 2 layers for porous substrates. Leave for 1 - 3 hours.

If SikaShield® SK2000 must be applied to a damp surface, prime with Davco Supaprime or Davco K11 System instead of using Davco SK Primer.

### APPLICATION METHOD / TOOLS

#### Laying and installing

Cut the membrane to dimensions required. Affix SikaShield® SK2000 to all required surfaces.

Position the roll of membrane on the area to be waterproofed (do not remove the release paper at this stage). Starting from the lowest point to the highest point to ensure laps shed water. Laps shall be minimum 50mm or on the white line premarked on the roll.

Roll up the membrane and unroll again this time pressing the membrane onto the primed surface while pulling the release paper under the roll, press the membrane onto the surface with the help of a metal roller, taking special care on the end joints.

If bubbles caused by air are being trapped underneath, simply pierce the bubble with a nail and press the air out towards the hole.

One edge of the membrane is manufactured with a unique overlap system to guarantee a watertight seam between adjoining membrane. Remove release paper from this overlap selvedge on the edges while pressing the lappings with a pressure roller to form permanent seal.

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Make sure that seal is complete around pipes and drainage facilities, secure by priming and applying SikaShield® SK2000 in strips cut to size.

For extra security in edges and end joints, SikaShield® SK2000 cut into 150mm width may be used in an overlapping position. All corners whenever possible should be further reinforced and overlapped with a separate strip of SikaShield® SK2000 cut to required size.

Mechanical fixing of end laps is optional and necessary for heavy duty hydraulic installations.

## 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.

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