BUILDING TRUST

PRODUCT DATA SHEET

SikaBit® VB SA-730 K

SELF-ADHESIVE VAPOUR CONTROL LAYER, ALUMINIUM REINFORCED, FLEXIBLE AT -25 °C

PRODUCT DESCRIPTION

SikaBit® VB SA-730 K is an SBS modified bituminous, self-adhesive vapour control layer. It is reinforced with aluminium foil and a dimensionally stable non-woven polyester inlay. The underside has a removable liner over the adhesive compound for an easy application. It can be applied to wood, metal and concrete sub-strates. Top surface finish: polyethylene film. Weight: ~3,0 kg/m².

USES

Roof waterproofing membrane for:
- Flat and sloping roofs
- As vapour control layer for roofs over high humidity spaces (RH at 20 °C ≤ 80 %)

Roof deck substrate types:
- Metal
- Plywood panels, oriented strand board (OSB)
- Polystyrene and extruded foam
- Polyurethane foam coated with polyethylene fibre-glass felt, etc.

CHARACTERISTICS / ADVANTAGES

- High resistance to vapour movement
- Easy and speed of installation from self-adhesive properties
- Good watertightness
- High elongation
- High mechanical properties
- Good adhesion at low temperatures
- Accommodates a wide range of roof system, deck types and substrate combinations
- Choice of substrates primers

APPROVALS / STANDARDS

- CE marking and Declaration of Performance to EN 13970 – Bituminous layers for Vapour Control

PRODUCT INFORMATION

Chemical Base	SBS modified bitumen	
Reinforcing Material	Aluminium foil and a non-woven polyester fabric stabilised with fibreglass	
Packaging	Roll size	
	Length	10,00 m
	Width	1,00 m
	Weight	30,0 kg (3,0 kg/m²)
Appearance / Colour	Top surface	Polyethylene film
	Backing	Release liner
Shelf Life	12 months from date of production	

Storage Conditions	Product must be stored in original unopened and undamaged sealed packaging in dry conditions and temperatures between +5 °C and +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.
Product Declaration	EN 13970: Bituminous layers for Vapour Control
Length	10 m -1 %
Width	1 m -1 %

TECHNICAL INFORMATION

Tensile Strength	Longitudinal	250 N/50 mm ± 20 %	(EN 12311-1)
	Transversal	120 N/50 mm ± 20 %	
Elongation	Longitudinal	15 % ± 15 %	(EN 12311-1)
	Transversal	20 % ± 15 %	
Tear Strength	Longitudinal	100 N ± 30 %	(EN 12310-1)
	Transversal	100 N ± 30 %	
Flexibility at low Temperature	-25 °C		(EN 1109)
External Fire Performance	"EXT.F.A.B.		(BS 476)
Reaction to Fire	Class E		(EN 13501-1)
Flow Resistance	≥ 100 °C		(EN 1110)
Artificial Ageing	Passed		(EN 1297)
Water Vapour Transimission	μ = 1 500 000 -20 %		(EN 1931/EN 1296)
Water Tightness	60 kPa		(EN 1928-Method B)

APPLICATION INFORMATION

Ambient Air Temperature	+5 °C min. / +50 °C max.
Relative Air Humidity	80 % max
Substrate Temperature	+5 °C min. / +50 °C max.

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

The supporting structure must be of sufficient structural strength to apply all new and existing layers of the roof build-up. Complete roof system must be designed and secured against wind uplift loadings.
The substrate must be uniform, firm, smooth and free of any sharp protrusion or burrs, clean, dry, free of grease, bitumen, oil, dust and loosely adhering particles.

SUBSTRATE PREPARATION

Use the appropriate preparation equipment to achieve the required substrate quality.

APPLICATION METHOD / TOOLS

Installation procedure
Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

Priming
Apply the appropriate primer, Sika® Primer 600 or Sika® Primer 610, at the correct consumption to the prepared dry surface and allow to dry before next application stage. Refer to the individual Product Data Sheets.

Alignment
Unroll, align and re-roll correctly before bonding. Each membrane must be laid parallel to each other and must be staggered by at least 1 m to avoid coinciding joints.

Overlaps
Side: 50 mm. End: 100 mm.
The upper face of the membrane has an overlap strip protected by a siliconised tape for sealing overlap seams.

Bonding
Check the alignment of the sheets before bonding. Re-

align where necessary. At one end of the sheet, peel away part of the silicone release liner from the underside and bond this part to the substrate. Then peel away the release liner sideways from the rest of the SikaBit® VB SA-730 K sheet to allow it to bond to the substrate. Then roll the entire surface area of the applied membrane with a suitable heavy roller ensuring any air bubbles are removed.
When laying insulating panels over the membrane, they must be mechanically fixed to the substrate through the membrane.

Detailing

All details such as internal and external corners, upstands, vent pipes, drains, support metalwork etc. must be cut and sealed effectively. Detailing (not bonding) must follow the recommended guidelines and good practice for torch-applied membranes.

Protection

The membrane must be protected from damage during any ongoing site activities.

MAINTENANCE

To maintain the function of the roof during its lifespan, it is advisable to arrange periodically for inspection of the membrane and detailing. Check the functionality of the auxiliary works, flashings, drainage outlets, overflow pipes etc. including removing leaves, moss and other vegetation, which could cause ponding on the roof and overload the drainage system.

LIMITATIONS

- The limiting factor in the wind up-lift resistance of the adhered roofing assembly will be the adhesion strength of the SikaBit® VB SA-730 K to the substrate.
- For slopes over 15 %, multi-layered roof layers including self-adhesive membranes must be carefully designed and if necessary integrated with mechanical fastenings.
- Laying the membrane at temperatures ≤+5 °C is permitted if temporary heating is provided using suitable heat producing equipment to heat the substrate to ≥+5 °C.Laying the membrane at temperatures ≤+10 °C and / or in high humidity conditions, use suitable heat producing equipment to heat and / or dry the substrate.
- At low temperatures, take care unrolling to avoid damaging the membrane.
- When laying the membrane at high temperatures, the integral adhesive will become 'tacky' and may restrict laying operations.
- Use suitable footwear to avoid puncturing the membrane.
- Visible sheets applied vertically must be secured mechanically at the end. The same is valid for walls in contact with the ground.
- Do not apply to wet, damp or unclean substrates / surfaces.
- If a seasonal symbol is printed on the roll's label, it is advisable to use the membrane during the indicated season.

VALUE BASE

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for the exact product data and uses.

ECOLOGY, HEALTH AND SAFETY

REGULATION (EC) NO 1907/2006 - REACH

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 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).

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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