BUILDING TRUST

PRODUCT DATA SHEET

SikaBit® VMS T-40G PS MG

Elastomeric bituminous roof waterproofing membrane with heat activated adhesive strips for use on damp substrates

PRODUCT DESCRIPTION

SikaBit® VMS T-40G PS MG is an elastomeric bituminous roof waterproofing membrane with heat activated adhesive strips on the underside. The bonding area is approximately 40% which allows the diffusion of residual surface moisture from damp substrates. It is reinforced with a non-woven polyester stabilised glass fibre inlay. The top surface is coated with mineral granules for laying ceramic tiles or cement mortar.

USES

Roof waterproofing membrane for:
- Rehabilitation of old roof, terraces and balconies
- Flat or sloping roofs up to 15% gradient
- As a single layer under floor waterproofing
- Interior and exterior use

CHARACTERISTICS / ADVANTAGES

- Quick to apply without removal or disposal of the old substrate
- Can be applied over damp surfaces at low temperatures
- Weight: ~4,0 kg/m²
- Tiles can be placed directly onto the membrane
- Provides consistent level and thickness
- Crack resistant
- Rainproof immediately after application
- Can be walked on during application
- Easy to install by torching method
- Adhesive strips reduce the strain from cyclic movement across the underlying substrate

APPROVALS / STANDARDS

- CE marking and Declaration of Performance to EN 13707 - Reinforced bitumen sheets for roof waterproofing

PRODUCT INFORMATION

Chemical Base	Elastomeric polymer modified bitumen	
Reinforcing Material	Non-woven polyester fabric stabilised with glass fibre	
Packaging	Roll size	
	Length	10,00 m
	Width	1,0 m
	Weight	4,0 kg/m²
	Refer to current price list for packaging variations	
Appearance / Colour	Top surface	Mineral granules
	Backing	Adhesive strips covered by a protective polyethylene foil
Shelf Life	12 months from date of production	

Storage Conditions	Product must be stored in original unopened and undamaged packaging in dry conditions and temperatures between +5 °C and +30 °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	CE marking and Declaration of Performance to EN 13970 – Bituminous layers for Vapour Control
Length	10,00 m ± 1,00 % (EN 1849-1)
Width	1,00 m ± 1,00 % (EN 1849-1)

TECHNICAL INFORMATION

Tensile Strength	Longitudinal Transversal	700 N/50 mm ± 20 % 500 N/50 mm ± 20 %	(EN12311-1)
Elongation	Longitudinal Transversal	40 % ± 15 % 45 % ± 15 %	(EN12311-1)
Tear Strength	Longitudinal Transversal	160 N ± 30 % 200 N ± 30 %	(EN 12310-1)
Joint Shear Resistance	Longitudinal Transversal	600 N/50 mm ± 20 % 400 N/50 mm ± 20 %	(EN12317-1)
Flexibility at low temperature	≤ -15 °C		(EN 1109)
External Fire Performance	Froof		(EN 13501-5)
Reaction to Fire	Class E		(EN 13501-1)
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 waterproofing build-up.
- When used as a roofing membrane, the 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.
- The substrate can be one of the following materials: Concrete, cementitious-based, ceramic floor tiles, metal, wood.

SUBSTRATE PREPARATION

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

APPLICATION METHOD / TOOLS

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

Installation procedure

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Priming

When necessary, apply the appropriate primer from the Sika® Igolflex® P range, 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 torching.

Overlaps

Side: 100 mm. End: 150 mm.

Torching

1. Use a gas burner to heat the substrate and the backing film on the underside of membrane.
2. When the backing film starts to melt, the membrane is ready to stick.

3. Roll the membrane forward and press firmly against the substrate to bond. Ensure a bead of melted bitumen is visible along the full length of the overlap sides and ends when laying.

Detailing

All details such as internal and external corners, upstands, vent pipes, drains, support metalwork etc. must be cut and sealed effectively. Detailing 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.

LIMITATIONS

- At low temperatures, take care unrolling to avoid damaging the membrane.
- Use suitable footwear to avoid puncturing the membrane.
- Do not apply to wet, damp or unclean surfaces.
- Do not over-torch the membrane otherwise the polyester reinforcement (which melts at +260 °C) will be damaged making the membrane un-useable.
- If membrane is insufficiently heated, this can cause reduced adhesion to the substrate, between layers or on the overlaps. If this occurs, un-bonded areas must be lifted and re-torched.
- 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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