

PRODUCT DATA SHEET

SikaShield® HM

Monolithic, hot-applied, rubberized bitumen waterproofing membrane

PRODUCT DESCRIPTION

SikaShield® HM is a monolithic, hot-applied, rubberized bitumen membrane for use in waterproofing applications. SikaShield® HM is a thick, tough, flexible and self-healing membrane.

WHERE TO USE

SikaShield® HM can be applied on all types of horizontal and vertical structures such as:

- Plazas
- Parking decks
- Water basins, fountains and planters
- Tunnels
- Bridges
- Mud slabs
- Foundation walls

CHARACTERISTICS / ADVANTAGES

- Ideal for vertical and horizontal applications
- Conforms to all surface irregularities and bonds tenaciously to an acceptable substrate (i.e., concrete, steel, wood, etc.) eliminating lateral migration of water
- Formulated for a completely monolithic and seamless application
- Solvent-free product
- Can be installed at temperatures as low as -18 °C (0 °F)
- Ideal for dead level installations; no slope required
- Developed to perform in a submerged environment

PRODUCT INFORMATION

Composition / Manufacturing	Homogeneous mixture of refined asphalts, synthetic rubber and mineral inert filler
Packaging	17.9 kg (39.5 lb) box
Colour	Black
Shelf Life	Indefinitely, when properly stored in its original, unopened and undamaged packaging
Storage Conditions	Store off-ground, in a dry place and protected from inclement weather.
Effective Thickness	6 mm (1/4 po)
Mass per Unit Area	6.8 kg/m ² (1.4 lb/ft ²)
Melting Point	82 °C (180 °F)

Flash Point	260 °C (500 °F) or not less than 25 °C (77 °F) above the temperature of maximum recommended application.
Volatile organic compound (VOC) content	0 g/L
Specific Gravity	1.15
Product Temperature	Between 180 °C and 190 °C (356 °F and 374 °F)

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

WHERE TO USE

- SikaShield® HM can be installed at temperatures as low as -18 °C (0 °F) on a clean, sound, dry, snow- and frost-free substrate.

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data. .

APPLICATION INSTRUCTIONS

EQUIPMENT

SikaShield® HM must be heated using a double-walled, indirect-heat melter fuelled by heat transfer oil having a flashpoint of 315 °C (599 °F) maximum. The melter must be equipped with thermometers and a direct-drive mechanical agitator. It is strictly forbidden to heat the membrane in a direct-fired heat melter. The temperature of the membrane in the melter must be between 180 °C (350 °F) - minimum and 190 °C (375 °F) - maximum. Never exceed the maximum temperature.

SUBSTRATE PREPARATION

Concrete substrates

Finish the surface of the concrete to be treated with a wooden float, preferably a CSP grade between 3 and 5, to ensure the required adhesion. Plug formwork holes, gaps and superficial cracks with a latex filling product compatible with the waterproofing membrane. Ensure concrete has cured for a minimum of 14 days prior to applying the base coat. Grind all sharp edges of joints or plane changes and remove any loose aggregate; substrate shall be completely free of all preformed mastic sealing compounds or similar materials for a

depth equal to not less than twice the width of the joint. Chamfered edges are preferred for expansion joints. Prior to starting any work, remove from substrate to be covered any materials such as curing products, dust, paint, ice, stripping agents, loose particles and other contaminants that may adversely affect the bond between the substrate and the membrane.

APPLICATION

Cracks and joints treatment

Bridging cracks and construction joints more than 1,5 mm (1/16 po) e and less than 6 mm (1/4 po) in width: apply a 300 mm (12 po) wide and 3 mm (1/8 po) thick layer of SikaShield® HM centered on the axis of the crack and embed 150 mm (6 po) wide elastomeric reinforcing sheet in it; ensure the ends of the elastomeric reinforcing sheet overlap and are fully adhered for a length of 150 mm (6 po). Avoid air pockets. Hot-apply the SikaShield® HM and form flashings with fabric reinforcement or a reinforced elastomeric sheet as appropriate, in accordance with the minimum requirements of CAN/CGSB - 37.51 and the manufacturer's instructions. The more stringent requirements shall prevail.

Membrane application

Apply a base coat of SikaShield® HM on the dry substrate, in accordance with CAN / CGSB-37.51 at a coverage rate of 4–6 m²/L (163 à 245 pi²/gal). The base layer must be applied continuously over the concrete substrate at an average thickness of 3 mm (1/8 po). Completely cover the base layer with 1000 mm (40 po) wide reinforcing fabric. Be careful to overlap each joint at least 51 mm (2 po). Cover the fabric with a 3 mm (1/8 po) thick top layer. The thickness of the two layers should have an average of 5 mm (3/16 po), without readings less than 4 mm (5/32 po).

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 recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. 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 or may be downloaded from our website at: www.sika.ca

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Product Data Sheet

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