



ROOF RENOVATION
BITUMINOUS MEMBRANE
SikaShield® VMS

A SAFE AND EASY SOLUTION FOR ROOF REFURBISHMENT

AN EFFECTIVE, EASY AND SIMPLE PRODUCT FOR ALL SEASONS, WITHOUT DEMOLITION.

SIKA HAS DEVELOPED A SAFE AND SECURE SOLUTION for roof refurbishment. The SikaShield® VMS membranes were re-designed to produce an effective, easy and simple product for all seasons, without demolition.



Roofs, balconies and terraces are generally outdoors and require maintenance as part of your property. Being outdoors means exposure to rain, UV light, heat, hail, snow, low temperatures, and other environmental forces. The lack of an efficient protection can cause great damages to a building.

SikaShield® VMS

Vapor Management System based on our SikaShield® bituminous membranes

SikaShield® VMS IS A BITUMINOUS membrane with strips on the under side, to diffuse any water vapor and prevent blistering.

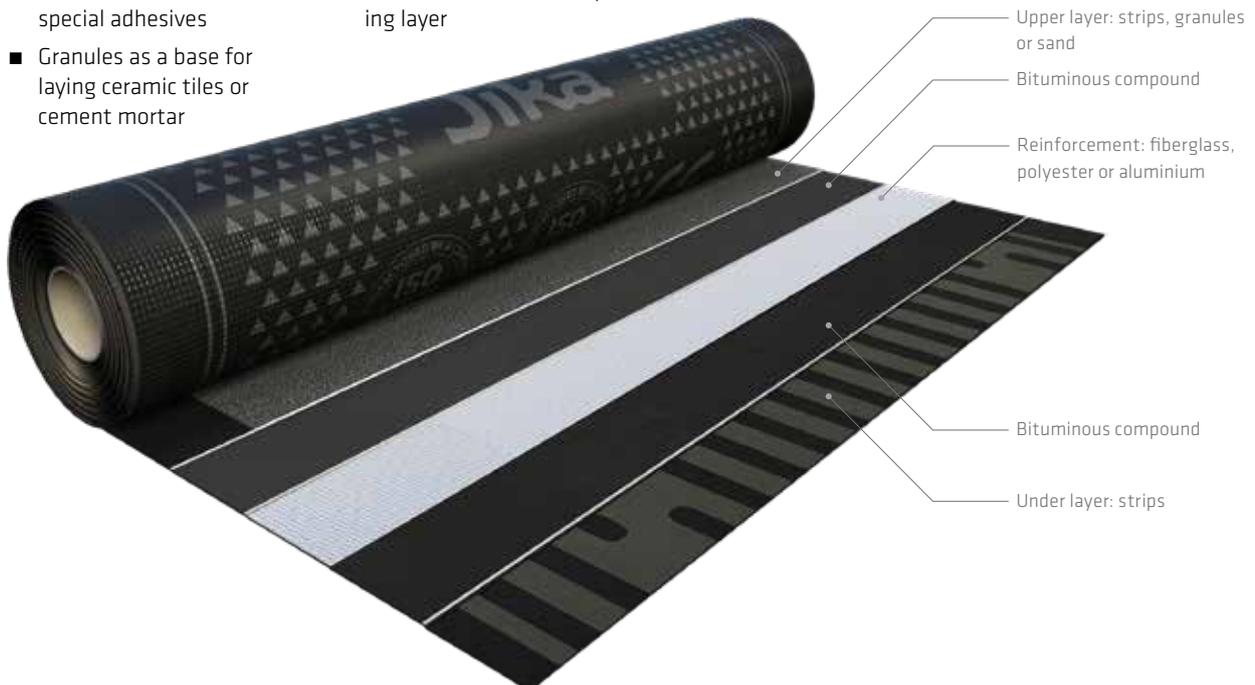
The strips – around 40% of the membrane surface – guarantee better adhesion and consequently higher resistance to wind. The remaining 60% is not glued, creating free space for improved diffusion of water vapor and preventing the formation of bubbles from residual moisture.

The same pattern of strips on the face of the membrane gives excellent bonding – strong and elastic.



3 DIFFERENT SURFACES FOR DIFFERENT USES AND BENEFITS

- Strips for bonding with thermal insulation without special adhesives
- Granules as a base for laying ceramic tiles or cement mortar
- Smooth surface to ensure the bond with the overlying layer



SikaShield® VMS

Polymer modified bituminous membrane coated with strips on the under side for semi-adhesive roofing

MAIN ADVANTAGES:

FAST APPLICATION –

No demolition or disposal of the existing base

NO SURFACE

PREPARATION –

Can be applied over damp surfaces or even in winter

WATER REPELLANT –

Rainproof straight away

CRACK RESISTANT –

For exterior and interior use

VERSATILE –

Available in two versions:
heat-adhesive and self-adhesive

READY FOR TILES –

Tiles can be placed directly onto the membranea

MG TYPE

NO EXTRA FIXATION NEEDED FOR INSULATION PANELS –

Can be bonded without special adhesives or mechanical fixation

BS TYPE

USES:

- Rehabilitation of an old roof, terrace or balconies
- Vapor barrier over spaces with high humidity
- Flat or pitched roofs up to 15% gradient

SikaShield® VMS ADHERES TO THE MOST COMMON BASES:
CERAMIC FLOORS, TILES, CEMENT, METAL AND WOOD SURFACES.



SikaShield® VMS RANGE IS AVAILABLE IN TWO VERSIONS:

The **SikaShield® VMS heat-adhesive** membranes are made of a special adhesive compound that is activated by heat, which provides a strong, safe and long-lasting semi-adhesive bond to the base.

And the **SikaShield® VMS SA self-adhesive** membranes are made of bitumen, tackifying resins, thermoplastic elastomeric polymers and antifreezing additives with long-lasting adhesive properties. In both versions, 40% of the under side of the membrane is covered with strips for better adhesion and higher resistance to wind than the current solutions on the market, such as perforated screens.

The distance between the strips also ensures an efficient distribution of mechanical strain and prevents any splits in the old covering from growing.

The same pattern of strips on the face of the membrane, our SikaShield® VMS "BS" type, gives excellent bonding - strong and elastic to EPS and XPS panels, even at temperatures close to zero. No additional products are required, such as adhesives or cold or melted bitumen.



SikaShield® VMS “BS” TYPE

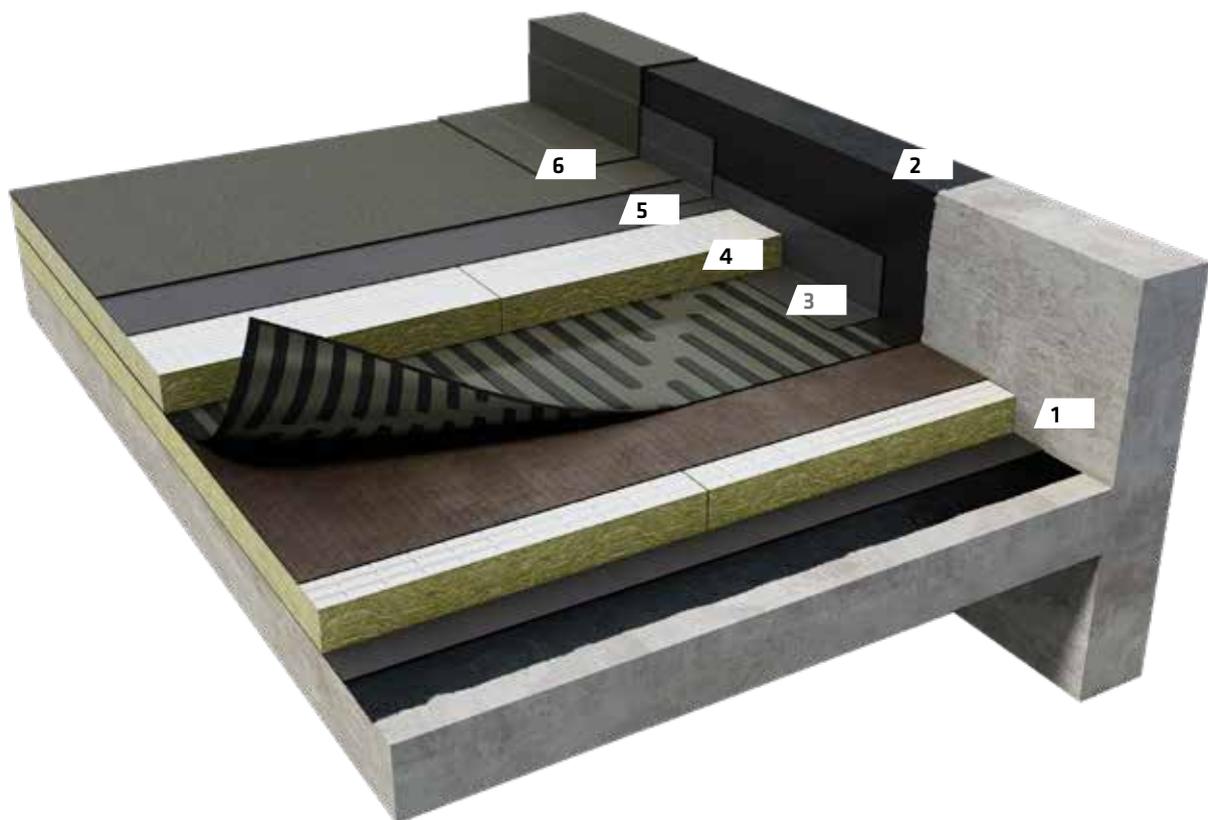
Vapor control layer with strips on both sides specially designed to bond the insulation panels

SikaShield® VMS E51 BS SA, SELF-ADHESIVE, AND SikaShield® VMS P51 BS, HEAT-ADHESIVE are designed to provide an energy saving by bonding to EPS or XPS insulation panels and reduce environmental impact.

Both are reinforced with a polyester non-woven fabric stabilized with glass fiber and aluminum foil, which provides an absolute vapor barrier and has excellent elasticity and resistance to perforation.

It is the ideal solution for:

- New buildings when working on a damp base or above areas with a high production of water vapor
- The reparation of roofs which still trap moisture
- Laying new insulation without puncturing the vapor barrier with mechanical fixing or special adhesives.



OPTION 1:

1. New or old base
2. Sika® Igolflex® P-10 EL
3. SikaShield® VMS E51 BS SA 4 kg/m²
4. Thermal insulation
5. SikaShield® E74 PE SA 3 mm
6. SikaShield® HB79 MG 4 mm

OPTION 2:

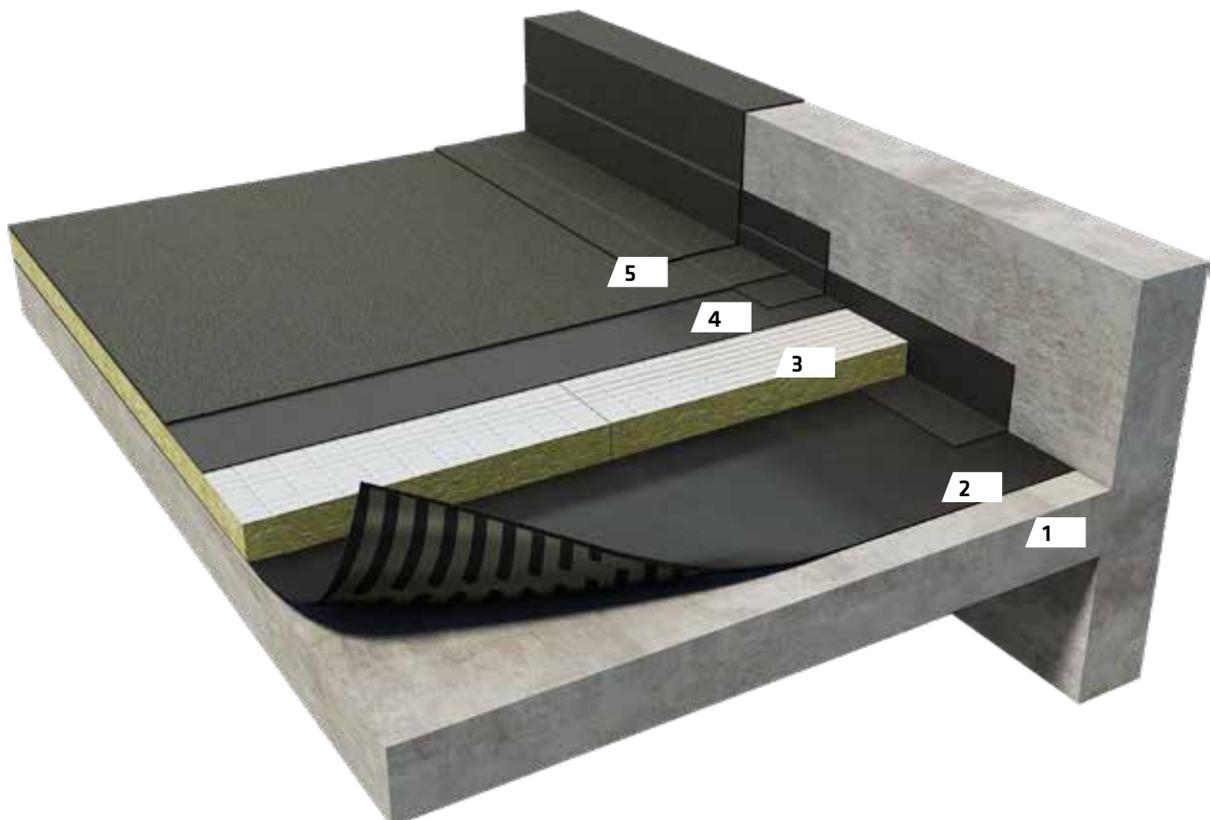
1. New or old base
3. SikaShield® VMS P51 BS 3 mm
4. Thermal insulation
5. SikaShield® E74 PE SA 3 mm
6. SikaShield® HB79 MG 4 mm

SikaShield® VMS “SMOOTH” TYPE

Vapor control layer with smooth surface to ensure the bond with the overlying layer

SikaShield® VMS P52 S, HEAT-ADHESIVE, is a 3 mm bituminous vapor control layer, reinforced with glass fiber and surfaced with sand. Sd value = 400 m.

SikaShield® VMS P51 S, HEAT-ADHESIVE, is a 3 mm bituminous vapor control layer reinforced with an aluminum foil and surfaced with a sand. Sd value > 4,500 m.



1. New or old base
2. SikaShield® VMS P52 or SikaShield® VMS P51
3. Thermal insulation PIR or PUR
4. SikaShield® E74 PE SA 3 mm
5. SikaShield® HB79 MG 4 mm

SikaShield® VMS “MG”

The SikaShield® Vapor Management System with mineral granules on the surface for refurbishment of old bituminous coverings under tiles

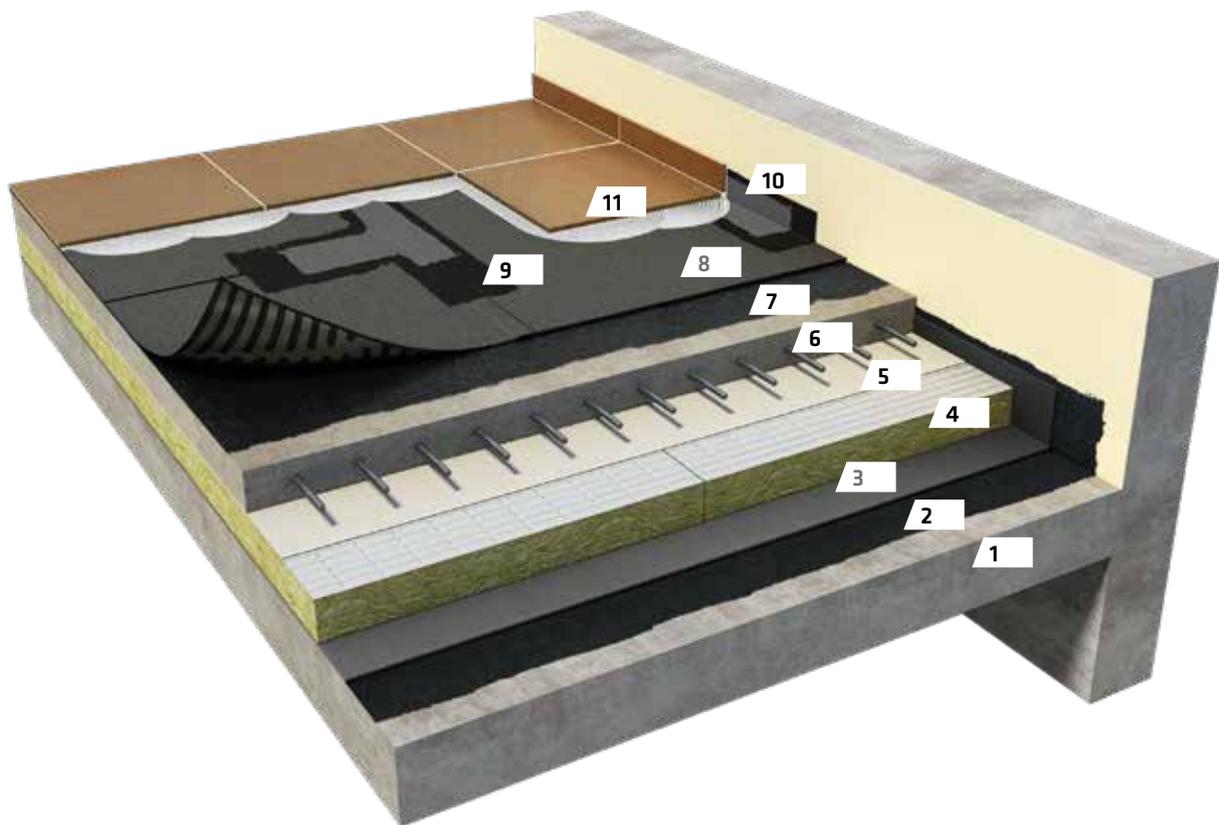
SikaShield® VMS E75 MG SA, SELF-ADHESIVE, AND SikaShield® VMS P55 MG, HEAT-ADHESIVE are designed with mineral granules on the surface for refurbishment of old bituminous coverings as a single layer. They are reinforced with a polyester non-woven stabilized with glass fiber to increase the dimensional stability, mechanical stability and elasticity.

Additional products for the system:

- Sikalastic®-685
- Sika® Igolflex® F-05

It is the ideal solution for:

- **Terrace or balcony with thermal insulation** where the thickness of the base is sufficient for laying a screed:



1. Substrate
2. Sika® Igolflex® P-10 EL
3. SikaShield® VB E71 PE SA
4. Thermal insulation
5. Non-woven polyester
6. Reinforced concrete screed
7. Sika® Igolflex® P-10 EL
8. SikaShield® VMS E75 MG SA or SikaShield® VMS P55 MG
9. End and side joints with double coat of Sikalastic®-685 and Sika® Igolflex® F-05
10. Perimeter joint with double coat of Sikalastic®-685 and Sika® Igolflex® F-05
11. New floor bonded with adhesive class C2S1

- Terrace or balcony with or without thermal insulation if it is not possible to demolish the existing floor:



OPTION 1:

1. Old base
2. Sika® Igolflex® P-10 EL
3. SikaShield® VMS E75 MG SA
4. End and side joints with double coat of Sikalastic®-685 and Sika® Igolflex® F-05
5. Perimeter joint with double coat of Sikalastic®-685 and Sika® Igolflex® F-05
6. New floor bonded with adhesive class C2S1

OPTION 2:

1. Old base
3. SikaShield® VMS P55 MG
4. End and side joints with double coat of Sikalastic®-685 and Sika® Igolflex® F-05
5. Perimeter joint with double coat of Sikalastic®-685 and Sika® Igolflex® F-05
6. New floor bonded with adhesive class C2S1

ADDITIONAL PRODUCTS

Sika® Accessories



Sikatherm® Insulation.



Vertical drains available in different dimensions and types: stainless, bitumen, EPDM, etc.



SikaShield® Roof Vertical Outlet.



Horizontal drain available in different dimensions and types: stainless, bitumen, EPDM, etc.



Sikalastic®-685, elastomeric bituminous liquid applied membrane for exposed roofs.

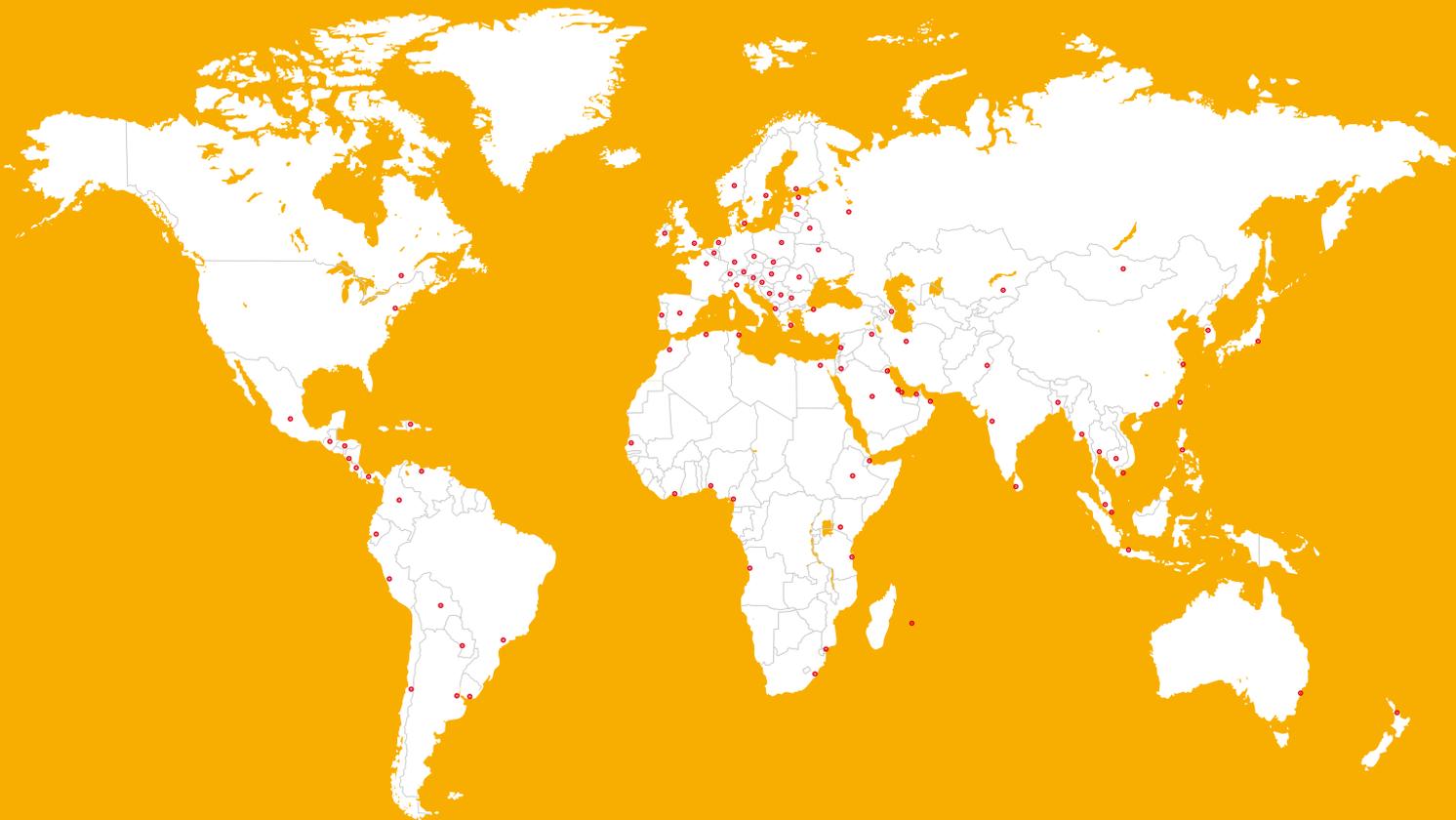


Sika® Igolflex® F-05, 100 Gr/m² Polyester Fabric for reinforcement of Sika® Coatings.





GLOBAL BUT LOCAL PARTNERSHIP



FOR MORE SIKA ROOFING INFORMATION:



WE ARE SIKA

Sika is a specialty chemicals company with a leading position in the development and production of systems and products for bonding, sealing, damping, reinforcing and protecting in the building sector and the motor vehicle industry. Sika's product lines feature concrete admixtures, mortars, sealants and adhesives, structural strengthening systems, industrial flooring as well as roofing and waterproofing systems.



Our most current General Sales Conditions shall apply. Please consult the most current local Product Data Sheet prior to any use.



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