

## PRODUCT DATA SHEET

# SikaShield® P25 MG EG 4 mm

### PLASTOMERIC MODIFIED BITUMINOUS WATERPROOFING MEMBRANE

#### DESCRIPTION

SikaShield® P25 MG EG 4 mm is an APP modified, bituminous, torch-applied, waterproofing membrane. It is reinforced with a dimensionally stable non-woven polyester inlay. The underside has a thin polyethylene burn-off film for easy application. It can be applied to wood, metal and concrete substrates including over existing bitumen roofing membranes. Top surface finish: Mineral granules. Thickness: ~4,0 mm

#### USES

Waterproofing membrane for:

- Retaining walls and basements
- Flat roofs under protective layers or ballast
- Balconies and terraces under tiles
- Wet rooms
- Underground car parks
- Raft slabs
- As a top sheet in a double layer roofing system
- Protection of various substrates in a wide range of applications

#### CHARACTERISTICS / ADVANTAGES

- Good watertightness
- Good elongation and cold flexibility
- Good mechanical properties (tensile, tear, shear)
- Good resistance to impact
- Easy to install by torching method
- Choice of primers to suit substrate and weather conditions

#### PRODUCT INFORMATION

<b>Composition</b>	APP modified bitumen	
<b>Reinforcing material</b>	Non-woven polyester fabric	
<b>Packaging</b>	<b>Roll size</b>	
	Length	10,00 m
	Width	1,00 m
<b>Appearance / Colour</b>	<b>Top surface</b>	<b>Backing</b>
	Mineral granules	Polyethylene film
<b>Shelf life</b>	24 months from date of production	
<b>Storage conditions</b>	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.

<b>Effective thickness</b>	4,0 mm ± 5 %	(EN 1849-1)	
<b>Resistance to impact</b>	≥ 600 mm at +23 °C	(EN 12691- Method A)	
<b>Tensile strength</b>	<u>Longitudinal</u>	<u>600 N/50 mm ± 20 %</u>	(EN12311-1)
	<u>Transversal</u>	<u>400 N/50 mm ± 20 %</u>	
<b>Elongation</b>	<u>Longitudinal</u>	<u>35% ± 20%</u>	(EN12311-1)
	<u>Transversal</u>	<u>40% ± 20%</u>	
<b>Tear strength</b>	<u>Longitudinal</u>	<u>150 N ± 30 %</u>	(EN 12310-1)
	<u>Transversal</u>	<u>150 N ± 30 %</u>	
<b>Joint shear resistance</b>	<u>Longitudinal</u>	<u>Min. 500 N/50mm</u>	(EN 12317-1)
	<u>Transversal</u>	<u>Min. 350 N/50mm</u>	
<b>Watertightness</b>	60 kPa	(EN 1928-Method B)	
<b>Flow resistance</b>	≥ 120 °C	(EN 1110)	
<b>Flexibility at low temperature</b>	≤ 0°C	(EN 1109)	
<b>Ambient air temperature</b>	+5 °C min. / +50 °C max.		
<b>Relative air humidity</b>	80 % max		
<b>Substrate temperature</b>	+5 °C min. / +50 °C max.		

## 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.

## IMPORTANT CONSIDERATIONS

- 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, unbonded 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.

## ECOLOGY, HEALTH AND SAFETY

### 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.

### 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 from the SikaBit® P or Sika® Igoflex® 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: 80 mm. End: 150 mm.

#### Torching

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

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, up-stands, 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

## **MAINTENANCE**

To maintain the function of the waterproofing 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.

## **LOCAL RESTRICTIONS**

Please note that as a result of specific local regulations the declared data for this product may vary from country to country. Please consult the local Product Data Sheet for the exact product data.

## **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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