BUILDING TRUST

PRODUCT DATA SHEET

SikaShield® P34 MG EG 4 mm

PLASTOMERIC MODIFIED BITUMINOUS WATERPROOFING MEMBRANE

DESCRIPTION

SikaShield® P34 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 areas
- 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
- High elongation and cold flexibility
- High mechanical properties (tensile, tear, shear)
- High resistance to impact
- Easy to install by torching method
- Choice of primers to suit substrate and weather conditions

PRODUCT INFORMATION

Composition	APP modified bitumen	
Reinforcing material	Non-woven polyester fabric	
Packaging	Roll size	
	Length	10,00 m
	Width	1,00 m
Shelf life	24 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.	

Appearance and colour	Top surface	Mineral granules	
	Backing	Polyethylene film	
Length	10 m		
Width	1 m		
Effective thickness	4,0 mm ± 5 %		(EN 1849-1)
Resistance to impact	≥ 600 mm at +23 °C		(EN 12691- Method A)
Tensile strength	Longitudinal	650 N/50 mm ± 20 %	(Standard)(EN12311-1)
	Transversal	450 N/50 mm ± 20 %	
Elongation	Longitudinal	35% ± 20%	(EN12311-1)
	Transversal	40% ± 20%	
Tear strength	Longitudinal	150 N ± 30 %	(EN 12310-1)
	Transversal	150 N ± 30 %	
Joint shear resistance	Longitudinal	Min. 500 N/50mm	(EN 12317-1)
	Transversal	Min. 350 N/50mm	
Flow resistance	≥ 120 °C		(EN 1110)
Watertightness	60 kPa		(EN 1928-Method B)
Ambient air temperature	+5 °C min. / +50 °C max.		
Relative air humidity	80 % max		
Substrate temperature	+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, 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.

ECOLOGY, HEALTH AND SAFETY

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safety-related data.

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.

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® 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: 100mm. 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, 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.

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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

Sika Egypt
1st Industrial Zone (A)
Section #10, Block 13035
El Obour City, Egypt
TEL: +202 44810580
FAX: +202 44810459
egy.sika.com