

PRODUCT DATA SHEET

SikaShield® P55 MG Testudo 4,5 kg/m²

Plastomeric bituminous membrane surfaced with mineral granules and flexible at -15 °C
(Formerly Index Testudo Mineral)

DESCRIPTION

SikaShield® P55 MG Testudo 4,5 kg/m² is an APP modified bituminous roof waterproofing membrane with a weight of 4,5 kg/m². It is reinforced with a non-woven polyester fabric dimensionally stabilised with glass fibre and is flexible at -15 °C. The top surface is coated with mineral granules, which allows the permanent exposure to UV radiation. The underside of the product has a burn-off film for easy torch-application.

USES

The Product is used as a waterproofing membrane for:

- Balconies and terraces
- Flat or sloping roofs with up to 15 % gradient

The Product is used as a:

- Exposed single-layer or as a top sheet in a multi-layer roofing system

CHARACTERISTICS / ADVANTAGES

- Decorative mineral granules
- Can be painted immediately after application
- Easy to install by torching method
- Highly flexible in cold temperatures
- Fully bonded
- Very good mechanical properties (tensile, tear, shear)
- Tiles can be placed directly onto the membrane

APPROVALS / CERTIFICATES

- CE marking and declaration of performance based on EN 13707:2004+A2:2009 Flexible sheets for waterproofing — Reinforced bitumen sheets for roof waterproofing — Definitions and characteristics
- AS4654.1- 2012- Approved for external above ground use (Test certificate available upon request)

PRODUCT INFORMATION

Composition	Composition	APP modified bitumen	
	Reinforcing material	non-woven polyester fabric dimensionally stabilised with glass fibre	
Packaging	Roll width	1.0 m	(EN 1848-1)
	Roll length	10.0 m	
	Refer to current price list for packaging variations.		
Shelf life	36 months from date of production		
Storage conditions	The Product must be stored in original unopened and undamaged 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
	Bottom surface	Polyethylene film
	Top layer colour	Refer to current price list for color variations
Mass per area	Mass per unit area	4.5 kg/m ² ± 0.45 kg/m ² (EN 1849-1)

TECHNICAL INFORMATION

Maximum tensile force	Longitudinal (MD)	750 N/50 mm ± 150 N/50 mm	(EN 12311-1)
	Transversal (CMD)	600 N/50 mm ± 120 N/50 mm	
Elongation at maximum tensile force	Longitudinal (MD)	50 % ± 15 %	(EN 12311-1)
	Transversal (CMD)	50 % ± 15 %	
Resistance to tear	Longitudinal (MD)	140 N ± 42 N	(EN 12310-1)
	Transversal (CMD)	140 N ± 42 N	
Joint shear resistance	Longitudinal	900 N/50 mm ± 180 N/50 mm	(EN 12317-1)
	Transversal	650 N/50 mm ± 130 N/50 mm	
Flexibility at low temperature	≤ -15 °C		(EN 1109)
Watertightness	Method B: 24 hours at 60 kPa	Pass	(EN 1928)
Reaction to fire	Class E		(EN 13501-1)

APPLICATION INFORMATION

Ambient air temperature	Minimum	+5 °C
	Maximum	+40 °C
Relative air humidity	Maximum	80 %
Substrate temperature	Minimum	+5 °C
	Maximum	+40 °C

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.

FURTHER INFORMATION

- Guidelines and good practice for torch-applied membranes
- Method Statement - Roofing Build-up with Bituminous Membranes

ECOLOGY, HEALTH AND SAFETY

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 the 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).

APPLICATION INSTRUCTIONS

SUBSTRATE QUALITY

SYSTEM DESIGN

Consider the following when designing the roof system:

- The supporting structure must be of sufficient structural strength to support all new and existing layers of the roof build-up.
- The complete roof system must be designed to withstand and be secured against wind uplift loadings.
- The wind uplift resistance of the adhered roofing assembly is limited by the adhesion strength of the Product to the substrate.

SUBSTRATE CONDITION

The substrate surface must be uniform, firm, smooth and free of any sharp protrusion or burrs, clean, dry, free of grease, laitance, oil, dust and loosely adhering particles.

SUBSTRATE PREPARATION

PRIMING

Primer selection

1. Apply Sika® Indever primer at a rate of 6-8m² per litre.
Note: Consumption rates will vary depending on substrate type and porosity.
2. Allow the primer to dry before membrane installation.

MAINTENANCE

Check the functionality of the auxiliary works, flashings, drainage outlets, overflow pipes etc.
Remove any leaves, moss and other vegetation, which could cause ponding on the roof and overload the drainage system.
To maintain the function of the roof waterproofing membrane during its lifespan, it is advisable to arrange periodically for inspection of the membrane and detailing.

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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April 2023, Version 02.02

020920011990001632

SikaShieldP55MGTestudo45kgm-en-AU-(04-2023)-2-2.pdf