

BUILDING TRUST

PRODUCT DATA SHEET

SikaShield® P24 PE IN 3 mm STD

Atactic Polypropylene (APP) modified bituminous membrane with Polyester Reinforcement for Tropical Climates

DESCRIPTION

SikaShield® P24 PE IN 3 mm STD is an APP modified bituminous waterproofing membrane with a thickness of 3 mm and plain finish. It is reinforced with a polyester reinforcement and is flexible to withstand temperature variations across tropical climates. The top surface is plain and is coated with polyethylene foil, which ensures excellent bond with subsequent overlays like screeds, etc. 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 under a heavy protection layer such as tiles or gravel.
- Flat and sloping roofs under protective layers like screeds or ballast
- Car park decks
- Bridge decks under asphalt wearing layer
- Base layer for a 2 layer APP System
- Underpass and subways
- Basements and other below ground structures as base layer for preferred 2 Layer system
- Horizontal reinforced concrete slabs, decks, podiums and protrusions
- Vertical reinforced concrete walls
- The product is used as aBase sheet in multi-layer sys-

Note: The product is not suitable for roofs permanently exposed to UV radiation. Protect the membrane with a suitable protection layer.

CHARACTERISTICS / ADVANTAGES

- Fully bonded
- Long term flexibility
- Excellent water tightness
- Good mechanical properties (tensile,tear,etc)
- Can be handled in warmer temperatures easily
- Low water absorption
- Easy to install by torching method
- Capable of withstanding thermal and structural
- Good durability and performance under long term ageing

PRODUCT INFORMATION

Construction	Composition	APP modified bitumen
	Reinforcing material	Polyester mat
	** 5 Layer Buildup	

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Packaging	Roll width Roll length	1 m	(EN 1848-1)
		10 m	
Colour	Top surface	Black	
	Bottom surface	Black	
Shelf life	12 months from date of production		
Storage conditions	aging in dry conditions and in a vertical position. Do n	ed in original unopened and unda d temperatures between +5°C a ot stack pallets of the rolls on to ner materials during transport or	nd +35 °C. Store p of each other,
Length	10 ± 0.1 m		(EN 1848-1)
Width	1 ± 0.1 m		(EN 1848-1)
Thickness	3 ± 0.3 mm		(EN 1849-1)
TECHNICAL INFORMATION			
Tensile strength	Longitudinal (MD) Transversal (CMD)	(600 ± 200) N/5cm @ 25°C (400 ± 200) N/5cm @ 25°C	(EN 12311-1)
Elongation	Longitudinal (MD)) Transversal (CMD)	40 ± 15 % 40 ± 15 %	(EN 12311-1)
Tear strength	Longitudinal (MD) Transversal (CMD)	(300 ± 100) N (200 ± 100) N	(ASTM D5147)
Flow resistance	No flow at +120 °C, 2 hrs		(EN 1110)
Softening point	≥ 145 °C		(ASTM D36)
Ambient air temperature	+10 °C min. / +40 °C max.		
Substrate temperature	+10 °C min. / +40 °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.

FURTHER DOCUMENTS

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

ECOLOGY, HEALTH AND 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

Strictly follow installation procedures as defined in method statements, application manuals and working instructions which must always be adjusted to the actual site conditions.

SUBSTRATE QUALITY SYSTEM DESIGN

Consider the following when designing the waterproofing system:

- The supporting structure must be of sufficient structural strength to support all new and existing layers of the roof and basement build-up.
- The membrane system for underground works must be considered for protection before structural concrete works.
- 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 protrusions or burrs, clean, dry, free of grease, laitance, oil, dust and loosely adhering particles.





SUBSTRATE PREPARATION

New concrete should be cured for at least 28 days and should have a pull off strength ≥ 1.5 N/mm2. Cementitious or mineral based substrates must be prepared mechanically to remove cement laitance and to achieve an open textured surface. Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed. The concrete must be carefully assessed for moisture content, air entrapment, and surface finish prior to any primer application.

PRIMING

Primer selection Note: For information on selecting the appropriate primer, contact Sika Technical Service.

- Apply the appropriate solvent or water based SikaShield® primer with the required consumption onto the prepared dry surface.
- Allow the primer to dry before membrane installa-

Note: Refer to the individual Product Data Sheet of the primer.

APPLICATION

IMPORTANT

Unrolling at low temperatures

At low temperatures, the membrane becomes less flexible. Be careful when unrolling to avoid damaging the membrane.

IMPORTANT

Damage through footwear

Footwear with spikes or sharp protrusions may puncture the membrane. Use footwear with a flat profile when walking over the membrane.

IMPORTANT

Damage through overheating

The polyester reinforcement melts at approx ??? °C. If it is damaged through overheating, the membrane becomes unusable. Keep moving the flame while torching to avoid overheating the membrane.

IMPORTANT

Reduced adhesion through insufficient heating

Make sure to heat the membrane sufficiently. If it is not sufficiently heated, the adhesion to the substrate, between layers or on the overlaps will be reduced. If the membrane does not adhere to other elements, lift and re-torch the unbonded areas.

Tackiness at high temperatures

Note: When laying the membrane at high temperatures, the integral adhesive will become 'tacky' and may restrict laying operations.

IMPORTANT

ALIGNMENT - Avoid coinciding joints

To avoid coinciding joints, lay the membranes parallel to one another with staggering. When applying on another bituminous membrane, make sure to stagger the overlaps of the previous layer.

- 1. Unroll the membrane.
- 2. Align the membrane.

3ik Radia Withe membrane before application.

MEMBRANE OVERLAPS

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2. મામ જ મા 100 mm per side at an angle of 45°.

3. Weld the overlaps with great care until you see a ide coming







out along the line of the overlap.

TORCHING

- 1. Heat the substrate and the backing film on the underside of the membrane with a gas burner.
- 2. When the backing film starts to melt, the membrane is ready to stick.
- 3. Roll the heated membrane forward and press it firmly against the substrate to bond it.
- 4. Make sure a bead of melted bitumen is visible along the full length of the overlap sides and ends when

Suitable substrates for torching

- Concrete Bituminous membranes with a smooth
- Coatings (check the compatibility)
- Brick masonry
- Cementitious screeds

DETAILING

Use a sharp knife to cut in all details such as internal and external corners, upstands, vent pipes, drains, support metalwork etc. 1. Refer to the relevant method statement for further information on detailing.

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 and detailing.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

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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