

FICHA DE DADOS DO PRODUTO

SikaShield® P55 PE RT EG 4 mm

Anti-root plastomeric bituminous membrane surfaced with PE foil and flexible at -15 °C

DESCRIÇÃO DO PRODUTO

SikaShield® P55 PE RT EG 4 mm is an APP modified bituminous waterproofing membrane with a thickness of 4 mm. It contains an anti-root additive, which allows the membrane to be in direct contact with the soil. It is reinforced with a non-woven polyester fabric and is flexible at -15 °C. The top surface is coated with a polyethylene foil, which ensures the bond of the overlying layer. The underside of the product has a burn-off film for easy torch-application.

UTILIZAÇÕES

The Product is used as a waterproofing membrane for:

- Flat and sloping roofs under protective layers or ballast
- Basements and other below ground structures
- Inverted roofs
- Roof gardens
- Roof garden with final waterproofing layer in contact with soil
- Horizontal reinforced concrete slabs, decks, podiums and protrusions
- Vertical reinforced concrete walls

The Product is used as a:

- Base sheet in multi-layer systems
- Single layer under heavy protection Please note:
- The Product is not suitable for roofs permanently exposed to UV radiation

CARACTERÍSTICAS / VANTAGENS

- Good resistance to root penetration
- Good resistance to humic acids and fertilizers
- Resistant to aggressive mediums in natural ground water and soil
- Good durability
- Fully bonded
- Easy to install by torching method
- Good mechanical properties (tensile, tear, shear)

DADOS DO PRODUTO

Base química	Composition APP modified bitumen with anti-root additive Reinforcing material non-woven polyester fabric		
Fornecimento	Roll width	1.00 m ± 1 cm	(EN 1848-1)
	length	10.00 m ± 10 cm	
	Refer to current price list for packaging variations.		

Aspecto / Cor	Top surface	Polyethylene film	
	Bottom surface	Polyethylene film	
Tempo de armazenamento	24 months from date of production		
Armazenagem e conservação	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.		
Espessura efetiva	4.0 mm ± 0.2 mm		(EN 1849-1)
Resistência à tração	Longitudinal (MD)	650 N/50 mm ± 130 N/50mm	(EN 12311-1)
	Transversal (CMD)	400 N/50 mm ± 80 N/50mm	
Alongamento	Longitudinal (MD)	40 % ± 20 %	(EN 12311-1)
	Transversal (CMD)	40 % ± 20 %	
Resistência à propagação do rasgo	Longitudinal (MD)	150 N ± 50 N	(EN 12310-1)
	Transversal (CMD)	180 N ± 50 N	
Resistência da junta ao corte	Longitudinal	550 N/50 mm ± 100 N/50mm	(EN 12317-1)
	Transversal	300 N/50 mm ± 50 N/50mm	
Reação ao fogo	Class E		(EN 13501-1)
Impermeabilidade	Method B: 24 hours at 60 kPa	Pass	(EN 1928)
Flexibility at low temperature	≤ -15 °C		(EN 1109)
Temperatura ambiente	Minimum	+5 °C	
	Maximum	+40 °C	
Humidade relativa do ar	Maximum	80 %	
Temperatura da base	Minimum	+5 °C	
	Maximum	+40 °C	

VALOR BASE

Todos os dados técnicos referidos nesta Ficha de Produto são baseados em ensaios laboratoriais. Resultados obtidos noutras condições podem divergir dos apresentados, devido a circunstâncias que não podemos controlar.

ECOLOGIA, SAÚDE E SEGURANÇA

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 pro-

duct 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).

INSTRUÇÕES DE APLICAÇÃO

QUALIDADE DA BASE

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 Pro-

duct 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.

PREPARAÇÃO DA BASE

PRIMING

Primer selection

Note: For information on selecting the appropriate primer, contact Sika technical service.

Apply the appropriate Sika® primer with the required consumption onto the prepared dry surface. Note:

Refer to the individual Product Data Sheet of the primer.

1. Allow the primer to dry before membrane installation.

APLICAÇÃO

IMPORTANT

Unrolling at low temperatures

At low temperatures, the membrane becomes less flexible.

Be careful when unrolling to avoid damaging the membrane.

1.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 +260 °C. If it is damaged through overheating, the membrane becomes unusable.

Keep moving the flame while torching to avoid overheating the membrane.

1.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 retorch the unbonded areas.

1. Seasonal symbol

Note: If a seasonal symbol is printed on the roll's label, it is advisable to use the membrane during the indicated season.

Tackiness at high temperatures

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

restrict laying operations.

ALIGNMENT

IMPORTANT

Avoid coinciding joints

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

1. Unroll the membrane.

2. Align the membrane.

3. Re-roll the membrane before application.

MEMBRANE OVERLAPS

Overlap the membranes by a minimum of 100 mm on the sides and 150 mm on each end.

1. At the end overlap, cut off a corner measuring 100 mm per side at an angle of 45°.

2. Weld the overlaps with great care until you see a trickle of melted mixture about 10 mm wide coming out along the line of the overlap.

3.FASTENING

When used as a roofing sheet, the membrane can be mechanically fixed to the substrate by using the correct type of fasteners.

The number of fixings, type and position depend on wind uplift forces to be resisted, pull-out strength of the fixing screws, the elastic limit of the membrane and the appropriate safety factors.

Contact Sika Technical Service for additional information.

Suitable substrates for fastening

- Concrete
- Wood
- Metal
- Perlite screed
- Bituminous membranes
- Coatings (check the compatibility)

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 laying.

Suitable substrates for torching

- Concrete
- Perlite screed
- Bituminous membranes with a smooth surface
- 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.

MANUTENÇÃO

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.

NOTA LEGAL

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