

PRODUCT DATA SHEET

SikaShield® W154 PE EG 2 mm

Adhesive bituminous waterproofing membrane wet applied

DESCRIPTION

SikaShield® W154 EG PE 2 mm is an adhesive bituminous waterproofing membrane wet applied to the concrete surface by the adhesive mortar SikaShield® W1. It has a thickness of 2 mm, is flexible at -15 °C and is reinforced with a non-woven polyester fabric. The top surface is coated with a polyethylene foil, the underside has a removable liner over the adhesive compound for an easy application

USES

The Product is used as a waterproofing membrane for:

- Basements and other below ground structures Vertical reinforced concrete walls
- Horizontal reinforced concrete slabs, decks and podiums

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- Single and strip foundations
- 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

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FEATURES

- Can be applied on wet concrete.
- Fully bonded
- Requires minimal surface preparation.
- Watertight against lateral water migration
- High impact resistance
- Fast and easy installation

PRODUCT INFORMATION

Composition	Polmer modified bitumen Reinforcing material : Nonwoven polyester fabric		
Packaging	Roll width	1.0 m	(EN 1848-1)
	Roll Length	10 , 15 , 20 m	
	Refer to the current price list for available packaging variations		
Shelf life	12 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 Polyethylene foil	Bottom surface Removable foil	
Effective thickness	2.0 mm ± 0.2 mm		(EN 1849-1)
Maximum tensile force	Longitudinal (MD)	650 N/50 mm - 120 N/50 mm	(EN 12311-1)
	Transversal (CMD)	400 N/50 mm - 80 N/50 mm	
Elongation at maximum tensile force	Longitudinal (MD)	40 % - 20 %	(EN 12311-1)
	Transversal (CMD)	40 % - 20 %	
Resistance to tear	Longitudinal (MD)	150 N - 50 N	(EN 12310-1)
	Transversal (CMD)	150 N - 50 N	

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BUILDING TRUST



Flexibility at low temperature	$\leq -15\text{ }^{\circ}\text{C}$		(EN 1109)
Watertightness	Method B: 24 hours at 60 kPa	Pass	(EN 1928)
Durability of watertightness against ageing	Aged 12 weeks at +70 $^{\circ}\text{C}$, tested 24 hours at 60 kPa	Pass	((EN 1928)
Reaction to fire	Class E		(EN 13501-1)
Ambient air temperature	<u>Minimum +5 $^{\circ}\text{C}$</u>	<u>Maximum +50 $^{\circ}\text{C}$</u>	
Relative air humidity	<u>Maximum</u>	<u>80 %</u>	
Substrate temperature	<u>Minimum +5 $^{\circ}\text{C}$</u>	<u>Maximum +50 $^{\circ}\text{C}$</u>	

BASIS OF PRODUCT DATA

All technical data stated in this Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

FURTHER INFORMATION

Method Statement - SikaShield® Wet Applied

ECOLOGY, HEALTH AND SAFETY

APPLICATION INSTRUCTIONS

SYSTEM DESIGN

Consider the following when designing the system:
The supporting structure must be of sufficient structural strength to support all new and existing layers of the system build-up.

If used as a roof system, the complete system must be designed to withstand and be secured against wind uplift loadings.

SUBSTRATE CONDITION

The membrane is applied directly onto the adhesive mortar SikaShield® W1. Refer to the PDS of that product for information on substrate condition requirements.

APPLICATION IMPORTANT

Unrolling at low temperatures

At low temperatures, the membrane becomes less flexible.

1. Be careful when unrolling to avoid damaging the membrane.

IMPORTANT

Damage through footwear

Footwear with spikes or sharp protrusions may puncture the membrane.

1. Use footwear with a flat profile when walking over the membrane.

IMPORTANT

Application at less than +5 $^{\circ}\text{C}$

When applying the membranes at temperatures lower than +5 $^{\circ}\text{C}$, use heating equipment to ensure that the substrate temperature is within the given temperature range.

Seasonal symbol

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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.

WET APPLICATION

Preconditions

Before the application of the adhesive mortar, the concrete substrate has been saturated with water. The adhesive mortar SikaShield® W1 has been applied onto the substrate and is still wet.

1. Lay the membrane directly over the wet adhesive mortar.
2. At one end of the membrane, peel away part of the release liner from the membrane's underside.
3. Bond this end of the membrane to the adhesive and the substrate.
4. Continue to peel away the release liner sideways from the rest of the membrane's underside.
5. Bond the rest of the membrane to the adhesive and the substrate.

6. **IMPORTANT** If the ambient temperature is below +10 °C, seal the membrane overlaps by heating them with a gas torch or with hot air. Seal the membrane overlaps to avoid trapping the adhesive under the overlap, which can compromise the adhesion.

7. Roll the surface of the applied membrane with a roller from the centre to the edge to remove any air bubbles.

8. Push any excess of adhesive towards the opposite direction of the sealed side overlap.

9. Allow the adhesive mortar to cure for at least 24 hours at +25 °C before you start backfilling.

DETAILING

1. Use a sharp knife to cut in all details such as internal and external corners, upstands, vent pipes, drains, support metalwork etc.

Refer to the relevant method statement for further information on detailing.

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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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