

PRODUCT DATA SHEET

SikaShield® W1 IN

Cementitious adhesive for bonding wet applied bituminous membranes (Formerly SikaBit® W-1)

DESCRIPTION

SikaShield® W1 IN is a 1-part polymer modified cementitious adhesive for bonding the SikaShield® W bituminous membranes on concrete substrates.

USES

The product is used for adhering SikaShield® W membranes for waterproofing in:

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

CHARACTERISTICS / ADVANTAGES

- Provides very good adhesion between the bituminous membrane and the concrete surface
- One-part system, requires only the addition of clean water
- Fast and easy installation
- Very good mechanical strength
- Requires minimum surface preparation
- Can be applied on wet concrete

PRODUCT INFORMATION

Composition	Polymer modified cement
Packaging	30 kg bag
Shelf life	12 months from date of production
Storage conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between +5 °C and +35 °C.
Appearance and colour	Red powder

SYSTEM INFORMATION

System structure	Layer	Product
	1. Adhesive	SikaShield® W1 IN
	2. Membrane	SikaShield® W159 ED 1,5 mm
	3. Protection	Suitable protection layer

APPLICATION INFORMATION

Mixing ratio	water : powder = 0.33–0.37 ~9.9–11.1 L of water per 30 kg bag
Fresh mortar density	~1.95 kg/L (EN ISO 2811-1)

Consumption	~2.0–3.0 kg/m ² (wet adhesive consumption per m ² of membrane) Note: Consumption data is theoretical and does not allow for any additional material due to surface porosity, surface profile, variations in level, wastage or any other variations. Apply product to a test area to calculate the exact consumption for the specific substrate conditions and proposed application equipment.	
Layer thickness	Minimum	1 mm
	Maximum	3 mm
Ambient air temperature	+10 °C min. / +40 °C max.	
Substrate temperature	+10 °C min. / +40 °C max.	
Pot Life	≥ 30 minutes (100 g mass, +25 °C, 65 % r.h)	

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

Method Statement: SikaShield® W membrane systems

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

EQUIPMENT

MIXING

- Electric single paddle mixer (< 400 rpm) with spiral paddle

APPLICATION

- Notched trowel

SUBSTRATE QUALITY

SYSTEM DESIGN

When designing the waterproofing system, make sure that the supporting structure has sufficient structural strength to support all new and existing layers of the system build-up. New concrete substrates must be at least 3 days old.

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.

MIXING

IMPORTANT

Over addition of water

Do not add more than prescribed water to the powder. Over addition affects the product's finished mechanical performance.

1. Pour the minimum amount of water into a suitable clean mixing container.
2. While mixing gradually add the powder.
3. Mix continuously for at least 3 minutes to achieve a uniform mix. If necessary, add more water up to the maximum amount to achieve the required consistency.
4. Leave to stand for 1 minute.
5. Mix for a further 1 minute.

Note: If mix has thickened due to delayed application, DO NOT dilute further with water. This should be discarded.

APPLICATION

1. Saturate the substrate with clean water.
2. Apply the mixed Product onto the substrate evenly using a 4–5 mm notched trowel.
3. Immediately apply the SikaShield® W bituminous membrane while the adhesive is still wet.

Note: Allow for minimum 24 h curing (at +25 °C) of the SikaShield® W1 IN prior to backfilling the installed SikaShield® W waterproofing membrane.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened material can only be removed mechanically.

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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Product Data Sheet
SikaShield® W1 IN
December 2022, Version 01.01
020725601100000012

SikaShieldW1IN-en-BD-(12-2022)-1-1.pdf

