

PRODUCT DATA SHEET

SikaShield® W1

CEMENTITIOUS ADHESIVE FOR WATERPROOFING MEMBRANES

DESCRIPTION

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

USES

The Product is used for:

- 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 waterproofing membranes and the concrete surface
- Fast and easy installation
- Very good mechanical strength
- Requires minimum surface preparation.
- Can be applied on wet concrete.

PRODUCT INFORMATION

Chemical base	Polymer modified cement
Packaging	25 kg bag
Shelf life	6 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. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.
Appearance / Colour	Powder/ Grey
Bulk Density	~1.50 kg/l

APPLICATION INFORMATION

Mixing ratio	<ul style="list-style-type: none"> ▪ ~8.75 litres of clean water per 25 kg bag for application of bituminous waterproofing membrane ▪ ~5.5 - 6.5 litres of clean water per 25 kg bag for application of TPO waterproofing membrane
Fresh mortar density	~1.94 kg/l
Consumption	~2.0–3.0 kg/m ² Note: Consumption data is theoretical and does not allow for any addition-

al material due to surface porosity, surface profile, variations in level, wastage or any other variations.

Ambient Air Temperature	Maximum	+40 °C
	Minimum	+10 °C
Pot Life	~30 minutes (at +27 °C and 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.

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

SUBSTRATE QUALITY

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.

The substrate must be free of any sharp protrusion or burrs, clean, free of grease, laitance, oil and loosely adhering particles.

MIXING

Do not add more water than the prescribed amount to the powder. Excessive water addition can negatively affect the finished mechanical performance of the product.

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 2 minutes to achieve a uniform mix. If necessary, add more water up to the maximum amount to achieve the required consistency.
4. Leave the mixture to stand for 2 minutes.
5. Mix for an additional 1 minute.

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APPLICATION

1. Saturate the substrate with clean water.
2. Pour the mixed SikaShield® W1 onto the substrate.
3. Spread the SikaShield® W1 evenly using a 4-5 mm notched trowel.
4. Immediately apply the waterproofing membranes while the adhesive is still wet.

For further application advice, refer to the Product Data Sheets and Method Statement of the relevant waterproofing membranes.

CLEANING OF TOOLS

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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