BUILDING TRUST

PRODUCT DATA SHEET

SikaShield® W1

Cementitious adhesive for bonding wet applied bituminous membranes

DESCRIPTION

SikaShield® W1 is a 1-part polymer modified cementitious adhesive for bonding the SikaShield® W bituminous 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 bituminous membrane 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 Refer to the current price list for available packaging variations.
Appearance / Colour	Red powder or grey powder
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 +25 °C. Always refer to packaging. Refer to the current Safety Data Sheet for information on safe handling and storage.
Bulk Density	Bulk density of powder 1.50 kg/l

APPLICATION INFORMATION

Mixing Ratio	~8.75 litres of clean water per 25 kg bag
Consumption	~2.0–3.0 kg/m² 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.	
Product Temperature	Maximum	+40 °C
	Minimum	+10 °C
Ambient Air Temperature	Maximum	+40 °C
	Minimum	+10 °C
Pot Life	~30 minutes (at +27 °C and 65 % r.h)	
Fresh mortar density	Density of fresh adhesive	~1.94 kg/l

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

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

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

IMPORTANT
Over addition of water
Do not add more than prescribed addition of 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. Gradually add the aggregate to the mix.
4. 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.
5. Leave to stand for 2 minutes.
6. Mix for a further 1 minute.

APPLICATION

1. Saturate the substrate with clean water.
2. Pour the mixed Product onto the substrate.
3. Spread the Product evenly using a 4-5 mm notched trowel.
4. Immediately apply the SikaShield® W bituminous membrane while the adhesive is still wet. Refer to the current Product Data Sheet for further application advice.

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 performance of this product may vary from country to country. Please consult the local Product Data Sheet for the exact description of the application fields.

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. It may be necessary to adapt the above disclaimer to specific local laws and regulations. Any changes to this disclaimer may only be implemented with permission of Sika® Corporate Legal in Baar.

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