

PRODUCT DATA SHEET

Sika® WP Shield Primer

Water based bituminous primer for SikaBit® and Sika® WP Shield range of preformed bituminous sheet membranes

DESCRIPTION

Sika® WP Shield Primer is water based modified bituminous primer which penetrates and activates the substrates. It also improves adhesion between the substrate and preformed bituminous sheet membranes Sika® WP Shield range & SikaBit® range.

USES

Used as a primer for better adhesion of the torch-on and stick-on Atactic Polypropylene (APP) and Styrene Butadiene Styrene (SBS) modified bituminous waterproofing preformed sheet membranes.

CHARACTERISTICS / ADVANTAGES

- Excellent bond with concrete, screed mortar, porous stones and lime-concrete substrates
- Bonds well with old bituminous substrates
- Effective activation of the surface to receive the waterproofing sheet membrane
- Easy application by brush, spray or roller
- Specially designed for tropical conditions

PRODUCT INFORMATION

Composition	Bitumen, water and additives	
Packaging	20 kg metal drum	
Colour	black / brown	
Shelf life	12 months from the date of production	
Storage conditions	Store properly in original unopened, sealed and undamaged packaging, in covered area at temperatures between +20 °C and +35 °C. Store vertically with top side up. Protect from direct sunshine, rain, snow, ice, etc.	
Density	1.00 ± 0.05 kg/l (at +25 °C)	(IS 101 : Part 1 : Sec 7)
Solid content	45 ± 5 %	(IS 101 : Part 2 : Sec 2)
Consistency	pasty liquid	

APPLICATION INFORMATION

Mixing ratio	Sika® WP Shield Primer must be diluted with maximum 10 % clean water to achieve the desired consistency. Note: In case of exceptional site conditions, higher dilution can be done based on site trials and advise of Sika Technical Service.
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Consumption

0.250–0.400 kg/m² per coat (diluted)

Note: These figures are theoretical and does not consider any additional material required due to surface porosity, surface profile, variations in level or wastage etc.

Ambient air temperature	+10 °C min. / +40 °C max.		
Substrate temperature	+10 °C min. / +40 °C max.		
Drying time	Touch dry (concrete substrate)	Max. 4 hrs	(ASTM D 1640)
	Hard dry (concrete substrate)	Max. 6 hrs	
The above values are at 23 ± 2 °C and 50 ± 5 % relative humidity and may vary according to the change in temperature, humidity, ventilation, wind, substrate quality, etc.			

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

Concrete, lime-concrete and mortar screed surfaces must be clean, free from grease, oil & loosely adhering particles.

SUBSTRATE PREPARATION

New concrete should be cured for at least 28 days and should have a pull off strength ≥ 1.5 N/mm². Cementitious or mineral based substrates must be prepared mechanically using wire brush, grinder, abrasive blast cleaning or scarifying equipment to remove cement laitance and to achieve an open textured surface. Loose friable material and weak concrete must be completely removed and surface defects such as blowholes and voids must be fully exposed. Use Sikadur® or SikaLatex® or Sika Monotop® range of repair materials for filling in potholes, voids or cracks on the substrates.

MIXING

Sika® WP Shield Primer is mixed with clean water upto maximum 10 % to achieve desired consistency. Stir the contents well before application.

IMPORTANT

The primer may become high viscous due to change in ambient conditions like temperature and humidity that might affect the consistency and increase consumption of the primer. Under such situation, a site modification by further diluting the primer as per the advice of the Sika Technical Service may be necessary to achieve the desired application consistency. The dilution is to be fixed on the basis of site trials but not to exceed 20 % by weight of the primer.

APPLICATION

Application procedure may vary slightly depending upon the site conditions.

1. Apply bituminous primer to a clean, smooth and dry surface by brush, roller or spray in single coat as per consumption given. Ensure full wetting and coverage of the surface.
2. In some cases a second coat of primer may be necessary, allow 24 hours between successive coats.
3. Application of bituminous membranes must be done soon after the primer is hard dry.

IMPORTANT

Do not apply Sika® WP Shield Primer when it is raining or when rain is imminent.

IMPORTANT

Do not apply Sika® WP Shield Primer on substrates with oil or grease contamination.

IMPORTANT

Do not apply Sika® WP Shield Primer on dry surface in extreme hot weather. Surface must be cooled by spray or mist of water before application.

IMPORTANT

Apply the membrane within 24 hours of primer application.

CLEANING OF EQUIPMENT

Clean all tools and application equipment with water immediately after use. Hardened and/or cured material can be removed mechanically or using thinner.

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

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