

PRODUCT DATA SHEET

Sikagard[®]-330

(formerly MProtect 330)

ELASTIC & CRACK-BRIDGING, PROTECTIVE, ANTI-CARBONATION COATING FOR CONCRETE AND MASONRY

DESCRIPTION

Sikagard[®]-330 is a smooth, water based acrylic coating that on curing forms an elastomeric, crack-bridging, protective, anti-carbonation and weather-proof finish.

USES

Sikagard[®]-330 can be applied over concrete, masonry and cement plaster to bridge cracks with a movement of up to 0.3 mm.

FEATURES

- As an integral final treatment in the repair and protection of reinforced concrete.
- Elastomeric, excellent crack-bridging properties.
- Smooth, decorative finish.
- Excellent resistance to CO₂ and SO₂ diffusion, frost, deicing salts and ultra-violet light.
- Water vapour permeable.
- Water based, non-flammable and low odour.
- High aging resistance- provides excellent durability.
- Ready to use.
- Application equipment can be cleaned with water.

PRODUCT INFORMATION

Packaging	27 Kg / Pail
Shelf life	12 months when stored in undamaged, unopened containers.
Storage conditions	To be stored under cover, clear of the ground and stacked not more than 2 pails high. Protect the materials from all sources of moisture, direct sunlight and frost.
Colour	White, Ivory, Cream, Grey
Density	1.37 – 1.41 kg/l
Solid content by volume	52% ± 1%

TECHNICAL INFORMATION

Abrasion resistance	Pass	(EN 1504-2)	
Crack bridging ability	A1	- 15 °C	(EN 1504-2)
	A2	- 10°C	
	B2	23°C	
Adhesion in peel	≥ 0.8 Mpa	(EN 1504-2)	

Thermal compatibility	≥ 0.8 Mpa	(EN 1504-2)
Capillary absorption	≤ 0.1 kg/m ² x h ^{-0.5}	(EN 1504-2)
Permeability to water vapour	Class 1 430 - 530	(EN 1504-2) (at μH 20)
Permeability to carbon dioxide	S _d > 50 533000	(EN 1504-2) (μCO ₂)
Resistance to weathering	Pass	(EN 1504-2)
Reaction to fire	E	(EN 1504-2)
Consumption	150-160 gm/m ² per coat. Consumption is dependant on substrate porosity and profile. We recommended that a trial area is treated to determine coverage rates.	
Curing time	Allow the first coat to completely dry, before applying the second coat. The drying time depends upon climatic conditions. Allow a minimum of 4 hours between coats at 20°C (<70% RH).	

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 DOCUMENTATION

Dangerous Substance

Comply with Clause 5.3 of EN 1504-2

IMPORTANT CONSIDERATIONS

Do not apply Sikagard®-330 when the ambient temperature or the substrate temperature is below 9°C and will drop below 5°C within 24 hours. In order to avoid condensation, the surface temperature during application should be 3°C higher than the dew point. The surface should be air-dry. At temperatures above 35°C dampen the surface prior to the application. Apply Sikagard®-330 with a brush, roller, airless or conventional spraying equipment. For a uniform appearance, finish in the same pattern. The coverage and crack-bridging capacity is dependant upon the thickness of the coating. We recommend you always check the consumption.

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.

SUBSTRATE QUALITY

Fresh concrete and masonry should be allowed to cure for at least 28 days before application.

SUBSTRATE PREPARATION

Substrates to be treated must be completely clean, structurally sound and mechanically keyed. All substrate coatings, defective renders, foreign matter, formwork treatments and other contaminants that may affect the bond adversely should be removed. Treat any area affected by algae or moss, with a suitable propriety fungicide, after the surface preparation has been completed. Substrates containing surface cracks, blowholes and minor irregularities should be re-profiled with a suitable product from the Sika range.

MIXING

Stir Sikagard®-330 before use. Priming is not normally required, however if the substrate is very porous one primer coat should be applied consisting of Sikagard®-330 diluted with up to 10% by volume, clean potable water. Mix the water thoroughly in before application by brush, roller or spray.

APPLICATION

Priming (if required): 1 coat of diluted Sikagard®-330 applied at 5-6 m²/litre.
Topcoat: 2 coats of Sikagard®-330 applied at a combined rate of: 0.50 to 0.71 ltr/m².
The finished 2 coat application should have a dry film thickness between 235 to 370 μm.

CLEANING OF EQUIPMENT

Immediately after use clean application equipment thoroughly with water.
Dry spillages can be removed using xylene.

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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