

PRODUCT DATA SHEET

Sikagard®-200

(formerly MProtect 200)

Flexible protective coating based on acrylic copolymer for exterior or interior use

DESCRIPTION

Sikagard®-200 is a flexible protective coating based on acrylic copolymer for exterior or interior use. Applied as a liquid it cures to form a durable, protective, waterproof membrane.

It is a single component emulsion containing inert pigments and has a brushable consistency. Sikagard®-200 exceeds all the requirements of a coating that resists carbonation and prevents chloride ion ingress.

USES

Sikagard®-200 is designed for the protection of concrete structures against carbonation and chloride ingress. The product is also suitable as a seamless and elastomeric waterproofing coating for timber, asbestos/ fibre cement and zinc sheets, asphalt, built-up felt and tiles. Areas of application are:

- Multi-storey car parks
- Underpasses
- Bridge, soffits, wing walls
- Concrete repairs
- Commercial buildings
- Industrial buildings
- Waterproofing a variety of substrates
- Flat roofs

FEATURES

- Easily applied by roller, brush or airless spray Flexible – capable of bridging cracks
- Protective – barrier against salts and atmospheric gases
- High-build – masking imperfections in substrates
- Waterproof – protects concrete from water-borne salts
- U.V. stable – maintains its appearance

PRODUCT INFORMATION

Packaging

Sikagard®-200 is available in 20ltr pails with a polyethylene liner.

Colour

Sikagard®-200 is available in white, light grey and grey. Other colours are available upon request & subject to quantity considerations

Shelf life

Up to 12 months if stored in unopened containers according to manufacturer's instructions.

Storage conditions

Store under cover out of direct sunlight and protect from extremes of temperature. In tropical climates, the product must be stored in an air conditioned environment.

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Failure to comply with the recommended storage conditions may result in premature deterioration of the product or packaging.

Density	Sikagard®-200 1.35 at 25°C Primer Approx. 1.1 at 25°C
Viscosity	Sikagard®-200 Viscosity 8000 cps Primer Viscosity 12000 cps
Solid content by volume	Sikagard®-200 55% Primer 30%

TECHNICAL INFORMATION

Modulus of elasticity in tension	Min. 300%
Chemical resistance	Resistant to spillage of gasoline, diesel, sewage, weak acids and alkalis
Water-vapour transmission rate	45gms/m ² per 24 hours - Taywood
Chloride ion diffusion resistance	4.98 x 10 ⁻¹⁰ cm ² /s

APPLICATION INFORMATION

Mixing ratio	Primer Dilution rate 1:1 with water
Consumption	First Coat: should be diluted with 15% water and apply 0.15kg/m ² . Second Coat: dilute with 10% water and apply 0.13kg/m ² . Third coat (Optional) : dilute with 5% water and apply 0.1kg/m ² . PRIMER: Should be diluted at the rate of 1:1, Sikagard®-200 primer to Water and applied to approx. 100gr/m ² depending on substrate condition.
Ambient air temperature	5°C to 50°C

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.

IMPORTANT CONSIDERATIONS

WEATHER CONDITIONS

Sikagard®-200 is not resistant to rain until the film has dried. This may take less than 30 minutes in hot dry climates and up to 24 hours in temperate humid conditions. Generally, the product should not be applied in rain or if rain is forecast. Similarly, Sikagard®-200 will freeze in its wet state so should not be applied to frozen substrates or when the temperature is below 5°C, or is likely to fall during application.

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 PREPARATION

All concrete surfaces should be treated to achieve a sound, clean surface free from laitance, oil, grease, mould release agent, residual curing compound, dust or other contaminants that could impair adhesion.

ROOF WATERPROOFING

Surfaces to be treated should be clean and dust free. All traces of oil, grease, mould release agent and residual curing compounds should be removed together with any other contaminant that could impair adhesion. Previous waterproofing treatments should be either completely removed or put in order. Cracked, broken, slipped or missing tiles, sheets, slates or other forms of covering must be replaced or refixed. Cracks in

asphalt or built-up felt systems should be filled with mastic and allowed to cure.

Sikagard®-200 primer, is required on all cement based and other porous substrates. It should be applied at 5m²/ltr and permitted to dry before proceeding.

SUBSTRATE QUALITY / PRE-TREATMENT

PRIMING:

All surfaces should be primed with Sikagard®-200 primer applied at a rate of 100gr/m², to eliminate excessive suction and promote adhesion.

Allow the Sikagard®-200 PRIMER to dry before proceeding with the top coats. Where the Sikagard®-200 primer is used for chloride ion or carbonation protection then Sikagard®-200 primer should be used as the priming system. It is necessary to open the concrete pores prior to the application of the Sikagard®-200 primer.

FILLER/SCRAPE COAT:

Surface depressions, blow holes, aggregate pop-outs, etc. should be rectified with SikaEmaco® N 303.

Allow to dry before over-coating.

APPLICATION

Sikagard®-200 can be applied by brush, roller or airless spray equipment. For airless spray application, dilute with 7% (1.4ltr/20ltr unit)

by volume of potable water. Use a tip size of 19- 23 thou.

Apply in one or more coats ensuring a continuous even film. The finish may be textured if desired. Successive coats should be applied at right angles to each other.

ROOF WATERPROOFING

Sikagard®-200 is applied to the prepared surface in two coats, the first being allowed to dry, before the second is applied. In hot dry climates, application will be assisted by dampening brushes.

Where the roof is in poor condition, or where substantial movement is expected in the roof structure, apply a sandwich system incorporating reinforcing fabric. In this application, the fabric is bedded into the wet film of the first coat of Sikagard®-200 using a charged brush. Ensure that full contact is achieved and there is no air entrapped. Apply a second coat of Sikagard®-200 when the first has dried, at right angles to the first.

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.

Sika Egypt

1st Industrial Zone (A)
Section #10, Block 13035
El Obour City, Egypt
TEL: +202 44810580
FAX: +202 44810459
egy.sika.com



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