

PRODUCT DATA SHEET

Sikagard®-203 W

Single component, waterborne, modified, acrylic resin surface coating

PRODUCT DESCRIPTION

Sikagard®-203 W is a tough and highly durable single component waterborne acrylic, polymer intermediate and topcoat containing an organic in film preservative. Sikagard®-203 W has a vapor permeable structure which allows damp substrates to dry out without causing blistering or loss of adhesion. Sikagard®-203 W is available in white and 30 other standard colors.

USES

Sikagard®-203 W may only be used by experienced professionals.

Internal walls and ceilings of environments that require continuously sanitary conditions.

CHARACTERISTICS / ADVANTAGES

- Seamless matte finish
- Fast cure
- Highly elastomeric
- Low temperature application
- Non-leaching
- Single component, water-based, low VOC
- Water vapor permeability characteristics

PRODUCT INFORMATION

Chemical Base	Waterborne acrylic copolymer dispersion	
Packaging	5 gal. (19 L) pails	
Shelf Life	24 months (when stored under the recommended conditions)	
Storage Conditions	Store dry between 50 °F (10 °C) and 90 °F (32 °C)	
Density	11.3 lb./gal. (~1.37 kg/l)	(DIN EN ISO 2811-1)
Solid content by weight	61.4 %	
Solid content by volume	46.7 %	

TECHNICAL INFORMATION

Shore Hardness	10	(Persoz)
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Tensile Strength	Unreinforced 652 psi (4.5 N/mm ²)	(BS EN ISO 27-3)
Elongation at Break	Unreinforced: 200 %	(-)
Impact Strength	No cracking or delamination, Withstands 200 mils (5mm) indentation on plasterboard without defects	
Chemical Resistance	10 % solution of acids and alkalis including nitric acid and caustic soda failed to cause breakdown of the coating	
Permeability to Water Vapor	Temperate 0.41 Perms @20 mils DFT; Tropical 0.93 Perms	

APPLICATION INFORMATION

Coverage	140 sq.ft/gal, 11 mils WFT, 2 coats recommended, will result in slight stipple texture. For smooth finish, Sikagard®-203 W must be sprayed at 15–20 mils WFT, 80–105 sq.ft/gal. Consult Sika Technical Service for spray application.	
Cure Time	50 °F (10 °C) / 50 % R.H. tack free 24 hours, full cure 7 days 68 °F (20 °C) / 50 % R.H. tack free 4 hours, full cure 7 days 86 °F (30 °C) / 50 % R.H. tack free 4 hours, full cure 7 days Application of Sikagard Hygiene top coats over Sikagard®-203 W: 50 °F (10 °C) / 50 % R.H. 8 hours 68 °F (20 °C) / 50 % R.H. 4 hours 86 °F (30 °C) / 50 % R.H. 4 hours	

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

The substrate must be sound, clean, dry and free of all contaminants such as dirt, oil, laitance, mold, grease and surface treatments. Remove loose material mechanically, or high pressure washing. All surfaces to be coated should be clean and free from dampness. Prefill any static cracks with a proprietary flexible latex/acrylic caulk. Consult Sika Technical Service.

New Drywall: Minimum level 4 finish, prime with Sika® Bonding Primer thinned 10 % with water.

Painted Surfaces: Always ensure that the existing paint is fully adhered and sound. Application over emulsion, oil alkyd and epoxy paints will require abrading surface using 100 grit screen or paper. Polyurethane and bitumen paints require abrading with 100 grit, cleaned and application of Sika® Bonding Primer. Application over existing Sikagard®-203 W requires cleaning followed by abrading with 100 grit then application of Sika® Bonding Primer.

Bricks, CMU blocks and Stone: Fill any static cracks with a flexible latex/acrylic caulk.

Concrete and Cementitious Materials: New concrete should be allowed to cure/hydrate for a minimum of 10 days, recommended 28 days. The moisture content of

the concrete should be less than 20 % before the application. Use Sika® Bonding Primer. Surfaces that requires a fill/parge coat should use Sikagard® EpoCem 75 (consult product data sheet) Sikagard®-203 W can be applied directly to cured/sanded Sikagard® EpoCem 75.

Metal Substrates: Always remove rust and corrosion by products to reveal bright metal. Once prepared, use Sikalastic® Metal Primer WB or Sikalastic® Epoxy Primer. Use two coats of primer on badly pitted or blasted surfaces.

Insulation Materials: Apply direct when completely encapsulating firm, cellular plastics, e.g. expanded polystyrene, polyurethane etc., and to firm, fibrous insulants. Use Sika® Bonding Primer when treating light dusting materials – e.g. phenolic and substrates in damp environments.

Wood: Wood must be stable and non-checking. Apply Sika® Bonding Primer. When dry, sand lightly and apply Sikagard®-203 W at the recommended coverage rate.

Plastics: Most plastics can be coated directly but plasticized types – e.g. plasticized PVC – require Sika® Bonding Primer.

Tiles: Apply over Sika® Bonding Primer. Particular care should be taken to ensure that joints between tiles are sound and free from loose grout, and that the tiles themselves are firmly adhered. Some glaze tiles will

require mechanical abrading.

MIXING

Pre-mix material using a drill and jiffy blade (300–450 rpm).

APPLICATION

Rollers - Use short (3/8–1/2 in.) pile or sheepskin rollers for reinforcement embedment and for the application of primers on flat, low absorbency substrates.

Brushes - A wide, soft nylon or bristle paint brush, apply in 2 coats. Airless Spray - Most types of industrial spray equipment are suitable, use a tip size of 0.15 to 0.21. Two even coats are recommended. Use a nose/face mask when spraying.

CLEANING OF TOOLS

Clean brushes and spray equipment with water. Dried Sikagard®-203 W can be removed mechanically or with paint stripper. Use personal protective equipment (chemical resistant gloves/ goggles/clothing). Without direct contact, sweep up spilled or excess product and place in suitable sealed container. Dispose of excess product and container in accordance with applicable local, state, and federal regulations.

LIMITATIONS

Notes on Limitation

- Do not apply near foodstuffs in ventilated conditions. Always ensure adequate ventilation.
- Do not thin or brush out like conventional paints (thinning for primer use is permissible).
- Do not apply the products below a minimum temperature of 40 °F (4 °C) or a maximum of 90 °F (32 °C) throughout the application period. Conditions must remain a minimum of 40 °F (4 °C) and 5 °F (-15 °C) above the dew point.
- Lower temperatures and conditions of higher relative humidity will slow drying time; allow 24 h between coats.
- Gloss is affected by humidity and temperature.
- Good ventilation is required for Sikagard®-203 W to dry properly.
- Ensure entire surface is fully dried before proceeding. Cracking may occur overcoating undried surfaces or when material is applied in a heavy application.
- The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.
- If additional heating is required, do not use gas, oil, paraffin, or other fossil fuel heaters.
- These methods produce large quantities of carbon dioxide and water vapor, which may adversely affect the finish. Use only electric powered warm air blower systems.
- New concrete should be allowed to cure/hydrate for a minimum of 10 days and preferably 28 days.
- Protect from frost and heat (above 90 °F (32 °C)).
- If there is any question as to whether or not the

product will adhere to an existing coating or surface, a test patch should be applied and evaluated for compatibility and adhesion.

Product Data Sheet

Sikagard®-203 W

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BASIS OF PRODUCT DATA

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

Caution

WARNING: IRRITANT. Contains Barium diboron tetraoxide (CAS: 13701-59-2). Causes eye irritation. May cause skin/respiratory irritation. May be harmful if swallowed.

First Aid

Eyes – Hold eyelids apart and flush thoroughly with water for 15 minutes. **Skin** – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. **Inhalation** – Remove to fresh air. **Ingestion** – Do not induce vomiting. Dilute with water. **Contact a physician. In all cases, contact a physician immediately if symptoms persist.**

Handling and Storage

Avoid direct contact. Wear personal protective equipment (chemical resistant goggles/gloves/clothing) to prevent direct contact with skin and eyes. Use only in well ventilated areas. Open doors and windows during use. Use a properly fitted NIOSH respirator if ventilation is poor. Wash thoroughly with soap and water after use. Remove contaminated clothing and launder before reuse.

Additional Info

Technical Data Sheets are updated periodically. To ensure the most current version is being used, visit Technical Resources on www.sikafloorusa.com. Proper

material application is the responsibility of the user. Site visits made by Sika personnel are for making technical recommendations only and not for supervising or providing quality control.

LEGAL DISCLAIMER

- KEEP CONTAINER TIGHTLY CLOSED
- KEEP OUT OF REACH OF CHILDREN
- NOT FOR INTERNAL CONSUMPTION
- FOR INDUSTRIAL USE ONLY
- FOR PROFESSIONAL USE ONLY

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

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Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com

Sika Mexicana S.A. de C.V.

Carretera Libre Celaya Km. 8.5
Fracc. Industrial Balvanera
Corregidora, Queretaro
C.P. 76920
Phone: 52 442 2385800
Fax: 52 442 2250537



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