

# Sikagard® 203 W

Single component, waterborne, modified, acrylic resin surface coating

<b>Description</b>	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.
<b>Where to Use</b>	Internal walls and ceilings of environments that require continuously sanitary conditions.
<b>Advantages</b>	<ul style="list-style-type: none"><li>■ Seamless matte finish</li><li>■ Fast cure</li><li>■ Highly elastomeric</li><li>■ Low temperature application</li><li>■ Non-leaching</li><li>■ Single component, water-based, low VOC</li><li>■ Water vapor permeability characteristics</li></ul>
<b>Chemical Resistance</b>	10% solution of acids and alkalis including nitric acid and caustic soda failed to cause breakdown of the coating
<b>How to Use Surface</b>	<p>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.</p> <p><b>New Drywall:</b> Minimum level 4 finish, prime with Sika Bonding Primer thinned 10% with water.</p> <p><b>Painted Surfaces:</b> 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.</p> <p>Application over existing Sikagard 203 W requires cleaning followed by abrading with 100 grit then application of Sika Bonding Primer.</p> <p><b>Bricks, CMU blocks and Stone:</b> Fill any static cracks with a flexible latex/acrylic caulk.</p> <p><b>Concrete and Cementitious Materials:</b> 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.</p> <p>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.</p> <p><b>Metal Substrates:</b> 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.</p> <p><b>Insulation Materials:</b> 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.</p> <p><b>Wood:</b> 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.</p> <p><b>Plastics:</b> Most plastics can be coated directly but plasticized types – e.g. plasticized PVC – require Sika Bonding Primer.</p> <p><b>Tiles:</b> 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.</p>

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## Typical Data

<b>Chemical Base</b>	Waterborne acrylic copolymer dispersion
<b>Water Vapor Transmission</b>	Temperate 0.41 Perms @20 mils DFT; Tropical 0.93 Perms
<b>Accelerated Weathering</b>	2,500 hours - no appreciable change.
<b>Tensile Elongation</b>	Unreinforced: 200%
<b>Tensile Load</b>	Unreinforced : 2.2 lb.
<b>Reemat Standard GFM</b>	10.4%
<b>Reemat Standard</b>	19.4 lb.
<b>Reemat Premium</b>	15.4%
<b>Reemat Premium GFM</b>	47 lb.
<b>Adhesion to Concrete</b>	> 217 psi ( >1.5N/mm <sup>2</sup> ) (failure in concrete)
<b>Impact</b>	No cracking or delamination, Withstands 200 mils (5mm) indetention on plasterboard without defects
<b>Tensile Strength</b>	Unreinforced 652 psi (4.5N/mm <sup>2</sup> ) (BS EN ISO 27-3)
<b>Density</b>	11.3 lbs per gal (~1.37 kg/l) (DIN EN ISO 2811-1)
<b>Hardness (Persoz)</b>	10
<b>Solids Content</b>	46.7% by volume; 61.4% by weight
<b>Gloss Units</b>	<5 gloss units (measured at 60°) (Classified as "dead matt" to BS EN 13300:2001)
<b>Opacity (Contract Ratio)</b>	>99.5% (230 micron film) (Classified as "class 1" to BS EN 13300:2001)
<b>Resistance to QUV</b>	No appreciable change other than minor reduction in gloss (ASTM G154-0: 2500 hours QUV-B)
<b>Surface Granularity</b>	<0.01mm (Classified as "fine" to BS EN 13300:2001)
<b>Fire Resistance</b>	BS.476 Part 7 Class 1 rating on asbestos cement.
<b>Packaging</b>	5 gallon pails
<b>Shelf Life</b>	24 months (when stored under the recommended conditions).
<b>Storage Conditions</b>	50°F (10°C) to 90°F (32°C)

<b>Mixing</b>	Pre-mix material using a drill and jiffy blade (300-450 rpm).
<b>Application</b>	<p><b>Rollers</b> - Use short (3/8"-1/2") pile or sheepskin rollers for reinforcement embedment and for the application of primers on flat, low absorbency substrates.</p> <p><b>Brushes</b> - A wide, soft nylon or bristle paint brush, apply in 2 coats.</p> <p><b>Airless Spray</b> - 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.</p>
<b>Cure Mechanism</b>	<p>50°F (10°C) / 50% RH tack free 24 hours, full cure 7 days</p> <p>68°F (20°C) / 50% RH tack free 4 hours, full cure 7 days</p> <p>86°F (30°C) / 50% RH tack free 4 hours, full cure 7 days</p> <p>Application of Sikagard Hygiene top coats over Sikagard 203 W:</p> <p>50°F (10°C) / 50% RH 8 hours</p> <p>68°F (20°C) / 50% RH 4 hours</p> <p>86°F (30°C) / 50% RH 4 hours</p>
<b>Coverage</b>	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.
<b>Limitations</b>	<ul style="list-style-type: none"> <li>■ Do not apply near foodstuffs in ventilated conditions. Always ensure adequate ventilation.</li> <li>■ Do not thin or brush out like conventional paints (thinning for primer use is permissible).</li> <li>■ 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.</li> <li>■ Lower temperatures and conditions of higher relative humidity will slow drying time; allow 24 hrs. between coats.</li> <li>■ Gloss is affected by humidity and temperature.</li> <li>■ Good ventilation is required for Sikagard 203 W to dry properly.</li> <li>■ Ensure entire surface is fully dried before proceeding. Cracking may occur overcoating undried surfaces or when material is applied in a heavy application.</li> <li>■ The incorrect assessment and treatment of cracks may lead to a reduced service life and reflective cracking.</li> <li>■ 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.</li> </ul>



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- 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.

<b>Caution</b>	<b>WARNING: IRRITANT.</b> Contains Barium diboron tetraoxide (CAS: 13701-59-2). Causes eye irritation. May cause skin/respiratory irritation. May be harmful if swallowed.
<b>First Aid</b>	<b>Eyes</b> – Hold eyelids apart and flush thoroughly with water for 15 minutes. <b>Skin</b> – Remove contaminated clothing. Wash skin thoroughly for 15 minutes with soap and water. <b>Inhalation</b> – Remove to fresh air. <b>Ingestion</b> – Do not induce vomiting. Dilute with water. <b>Contact a physician. In all cases, contact a physician immediately if symptoms persist.</b>
<b>Handling and Storage</b>	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.
<b>Clean Up</b>	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.
<b>Additional Info</b>	Technical Data Sheets are updated periodically. To ensure the most current version is being used, visit Technical Resources on <a href="http://www.sikaflorusa.com">www.sikaflorusa.com</a> . 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.

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