

Sikagard® 210

High Solids Reinforced/Resinous Wall and Ceiling Surfacing

Description	Sikagard 210 RM System: Fiberglass Reinforcement Mat utilizes special fiberglass cloth and thermosetting resins that are 100% solids. Sikagard 210 RM System consists of four coats of Sikagard 210 Resin and Sikafloor 215 Hardener. Fiberglass reinforcing cloth is incorporated into the second coat. ** Typical 210 RM application thickness: 21–35 mils DFT.								
Where to Use	<ul style="list-style-type: none"> ■ Pharmaceutical & cosmetic manufacturing facilities ■ Food & beverage processing facilities ■ Health care facilities ■ Operating rooms, scrub rooms, intensive care & therapy rooms ■ “Clean room environments” for pharmaceutical, animal research & electronic facilities ■ Class 10 to Class 1,000 performance areas ■ Commercial kitchens, dishwasher & waste disposal areas ■ Environments where high impact walls are required 								
Advantages	<ul style="list-style-type: none"> ■ Seamless surface ■ Easily cleaned via wash downs ■ Maximum impact & chemical resistance ■ No static cling ■ May be applied to a variety of substrates ■ Good abrasion resistance ■ Unaffected by most temperature variations 								
Chemical Resistance	Please refer to the Sikagard 210 chemical resistance guide or contact Sika Industrial Flooring Technical Service for specific chemical recommendations at 800-933-SIKA.								
How to Use Surface Preparation	<p>Check moisture by ASTM D-4263. This method is done by taping (2 inch duct tape) a 4 mil clear plastic sheet to the surface. The sheet can remain on the surface for 16-24 hours. After this duration, the plastic sheet should be removed and the underside checked for moisture. If condensation appears on the under side of the film or the concrete becomes visibly damp, the concrete is not dry enough to place the wall system. All substrates must be sound, clean, dry and free from all contaminants and form release agents. Surface should be checked for soundness and any “hollow” areas should be removed. All depressions or spalled areas and cracks should be properly repaired with the appropriate Sika concrete repair & protection materials. Adhere to preparation and application instructions of the repair product used. Concrete should have laitance removed by sanding, or grinding. Surfaces should be thoroughly vacuumed to remove surface dirt and dust. Surface and air temperature must be a minimum of 55°F(12.7°C) during installation and cure. Provide sufficient air movement to prevent condensation on surface during installation. After suitable preparation has been completed, mask all surfaces that require protection. If cove base is present, mask appropriately. Make certain all areas are covered that could be damaged by overspray. For new drywall, CMU or poured-in-place concrete walls, all Sikagard Descoglas™ systems can be pre-primed as outlined below. Important note: Pre-prime preparation materials must be pre-approved by Sika Flooring Technical Service.</p> <table border="1"> <thead> <tr> <th>Substrate</th> <th>Prep Material</th> </tr> </thead> <tbody> <tr> <td>- New drywall</td> <td>PVA drywall primer*</td> </tr> <tr> <td>- Concrete masonry unit (cmu)</td> <td>block filler</td> </tr> <tr> <td>- Poured-in-place concrete</td> <td>block filler</td> </tr> </tbody> </table> <p>* Ensure complete saturation of drywall substrate to minimize “soak in” of subsequent Sikagard DESCOGLAS™ coats.</p> <p>- Consult Sika Technical Service for recommendations for block filler.</p>	Substrate	Prep Material	- New drywall	PVA drywall primer*	- Concrete masonry unit (cmu)	block filler	- Poured-in-place concrete	block filler
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Typical Data

Flexibility	ASTM D-522-88 cracking	Passes 1” mandrel without
Impact Resistance	Gardner Impact Tester	> 160 in/lb
Abrasion Resistance	ASTM D-1044-90	0.019 gram loss
Fire Resistance	ASTM E-84-91	Class A: 2.6 oz cloth @ 21 mils max Class B: 5.8 oz cloth @ 35 mils max
VOC (g/l)	ASTM D2369-07	14.1 g/l
Packaging: Sikagard 210 Resin, and Sikafloor 215 Hardener are packaged in full 5 gallon (18.9 L) pails. The Sikagard 210 Resin is available in 20 colors plus white, special lead times required.		



Industrial Flooring

Mixing	Mechanically premix the Sikagard 210 Resin and Sikafloor 215 Hardener separately using a variable speed drill and Jiffy mixer (300-450 rpms). Mix for two minutes or until uniform, exercising caution not to introduce air into the material. Blend together 2.25 parts Sikagard 210 Resin and 1 part Sikafloor 215 Hardener and mix thoroughly for 2 minutes.
Application	Application of Sikagard 210 Resin/Sikafloor 215 Hardener material use 3/8" nap roller, a 1/2" nap roller may be required on certain substrates.
Critical Recoat Time	Sikagard 210 Resin/Sikafloor 215 Hardener is 8-24 hours based upon 75°F(23.8°C) and 50% relative humidity. Refer to individual topcoat data sheets for recoat times.
Tooling and Finishing	Sikagard 210 Body Coat: Fiberglass cloth is embedded into the freshly applied Sikagard 210 Resin/Sikafloor 215 Hardener using a wallpaper hanging technique. Butt cloth panels carefully or overlap panels and double cut, removing trimmed material. Use a broad knife, spring steel trowel or squeegee to remove air pockets and wrinkles after approximately 30 minutes to 2 hours, apply another full coat of blended Sikagard 210 Resin/Sikafloor 215 Hardener at a rate of 240-260 sq.ft./gal(22.2 - 24.1m ² /L) to embed fiberglass. Use a spring steel trowel or pliable plastic trowel to press the epoxy into the fiberglass; saturate and smooth. Allow to cure overnight or until surfaces can be sanded. Sand smooth. Imperfections should be filled with blended Sikafloor 215 epoxy and cabosil mixture. Repaired areas should be sanded smooth after cure. Sikagard 210 System Grout Coat: If fiberglass has been properly embedded and smoothed, grouting will be minimal. Mechanically mix the Sikagard 210 Resin and Sikafloor 215 Hardener separately using a variable speed drill and Jiffy mixer (300-450rpms). Mix for two minutes or until uniform, exercising caution not to introduce air into the material. Blend together 2.25 parts Sikagard 210 Resin and 1 part Sikafloor 215 Hardener and mix thoroughly. Roller apply using a 3/8" nap roller cover. Tightly fill in all irregularities while grouting the entire surface. Option to use a broad knife, spring steel trowel or squeegee to smooth out the coating. Sand smooth after cured. Minor imperfections should be repaired using a gypsum-based grout (less than 5% gypsum). Sikagard 210 NR Body Coat Roller apply blended Sikagard 210 Resin/Sikafloor 215 Hardener using a 3/8" nap roller.
Limitations	<ul style="list-style-type: none">■ Minimum/Maximum substrate temperature: 60°F/85°F (15.5°C/30°C).■ Minimum/Maximum relative humidity: 10%/85%.■ Substrate temperature must be at least 5°F (3°C) above measured dew point.■ Determine the surface moisture content by using an impedance moisture meter designed for use on concrete as detailed in ASTM E-1907. Acceptable test results shall be 4% by mass or less.■ Do not use on exterior, on-grade substrates.■ Do not thin this product. Addition of thinners will slow the cure and reduce the ultimate properties of this product.■ Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. UV resistant, light stable topcoats are available where ultimate color/clarity retention is required.■ Proper material application is the responsibility of the user. Site visits by Sika personnel are for making technical recommendations only and not for supervising or providing quality control.■ If the product is to be applied in or near areas containing foodstuffs, they should be removed before the application and until the coating has fully cured and all vapors have dissipated.■ If there is any question as to whether or not the product will adhere to an existing coating, a test patch should be applied and evaluated for compatibility and adhesion.■ This product has a limited pot life.
Caution	COMPONENT R: WARNING: IRRITANT, SENSITIZER Contains Modified Epoxy Resin (Mixture), Titanium Dioxide (CAS: 13463-67-7), and Nonylphenol (CAS: 84852-15-3) May cause eye/skin/respiratory irritation. May cause skin sensitization. May be harmful if swallowed. COMPONENT H: Sikafloor 215 Satin Hardner: WARNING: CORROSIVE, IRRITANT, SENSITIZER. Contains Amines (Mixture) and Benzyl Alcohol (CAS: 100-51-6). Harmful if swallowed. Corrosive to eyes. May cause eye/skin and respiratory tract burns. May cause respiratory tract / skin sensitization. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and central nervous system damage. Deliberate concentration of vapors of 'R' &/or 'H' components for purposes of inhalation is harmful and can be fatal.



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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 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.
Clean Up	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. 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.
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. Before applying for protection against specific chemical environments, consult Chemical Resistance Guide or Sika Technical Service. Do not use over a putty coat. Do not apply over cementitious substrates containing more than 10% lime by volume. Concrete should not exceed 4% moisture content by mass (ASTM D-183-76). Previously applied finishes are subject to practical field evaluation to determine appropriate preparation, primers, etc. Masonry backings may require cement plaster finish if it is desirable to have the wall in perfect plane.

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