



## PRODUCT DATA SHEET

# Sikagard® 215

### HIGH SOLIDS REINFORCED/RESINOUS WALL AND CEILING SURFACING

#### PRODUCT DESCRIPTION

Sikagard® 215 is a fiber reinforced Epoxy Coating formulated with temperature resistant reinforced fibers. Sikagard® 215 can be top coated with a variety of available Sikagard topcoats. Typical thickness for Sikagard® 215 is 20 mils DFT.

#### USES

Sikagard® 215 may only be used by experienced professionals.

- Pharmaceutical, research & 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

#### CHARACTERISTICS / ADVANTAGES

- 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

#### PRODUCT INFORMATION

<b>Packaging</b>	Component A (Sikagard 215)	3.75 US gal. (14.19 L)
	Component B (Sikafloor 217)	1.5 US gal. (5.67L)
	Component A+B:	5.25 US gal. (19.87 L)
<b>Appearance / Color</b>	White	
<b>Shelf Life</b>	24 Months in original unopened container under proper storage	

<b>Storage Conditions</b>	Store dry between 50 °F (10 °C) and 90 °F (32 °C)	
<b>Volatile organic compound (VOC) content</b>	28g/L	Components A+ B

## TECHNICAL INFORMATION

<b>Abrasion Resistance</b>	0.019 gram loss	ASTM D104490
<b>Impact Strength</b>	> 160 in/lb	Gardner Impact Tester
<b>Chemical Resistance</b>	Please consult Sikafloor Technical Services.	

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	Mix Ratio: 2.5 : 1		
<b>Coverage</b>	160–200 ft <sup>2</sup> / US gal (3.9–4.9 m <sup>2</sup> / L) at 8–10 mils (0.20–0.25 mm) wet film thickness (w.f.t.).		
<b>Pot Life</b>	<b>Material Temperature</b>	<b>Time</b>	
	68 °F (20 °C)	~ 35 minutes	
	75 °F (24 °C)	~ 30 minutes	
	86 °F (30 °C)	~ 25 minutes	
<b>Cure Time</b>	<b>Ambient &amp; Substrate Temperature</b>	<b>Tack Free</b>	<b>Full cure</b>
	50 °F (10 °C)	~ 8 hours	7 days
	68 °F (20 °C)	~ 6 hours	7 days
	86 °F (30 °C)	~ 4 hours	7 days
Note: Times are approximate and will be affected by changing ambient conditions.			
<b>Waiting / Recoat Times</b>	Before applying second coat Sikagard 215 allow:		
	<b>Ambient &amp; Substrate Temperature</b>	<b>Minimum</b>	<b>Maximum</b>
	50 °F (10 °C)	24 hours	3 days
	68 °F (20 °C)	8 hours	2 days
86 °F (30 °C)	6 hours	1 days	

## 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.

## LIMITATIONS

### Notes on Limitations

Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).

### Substrate Moisture Content

Moisture content of concrete substrate must be ≤ 4 % by mass (pbw – part by weight) as measured with a Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-2-3 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels > 4 % mass (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be ≤ 85 %. ASTM F2170 testing is not a substitute for measuring substrate moisture content. Use a Tramex® CME/CMExpert type concrete moisture meter as described above.

### Material Temperature

Precondition material for at least 24 hours between 65 °F to 75 °F (18 °C to 24 °C)

### Ambient Temperature

Minimum/Maximum 50/85 °F (10/30 °C)

### Substrate Temperature

Minimum/Maximum 60/85 °F (15.5/30 °C). Substrate temperature must be at least 5 °F (3 °C) above measured Dew Point. Mixing and Application must adhere to Material, Ambient and Substrate temperatures listed above or a decrease in product workability and slower cure rates will occur.

### Ambient Relative Humidity

Maximum ambient humidity 85 % (during application and curing)

### Dew Point

Beware of condensation! The substrate must be at least 5°F (-15°C) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or “blushing” of the coating. Be aware that the substrate temperature may be lower than the ambient temperature.

### Mixing

Do not hand mix Sikagard materials. Mechanically mix only. Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow the cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty. Improper mixing procedure or incorrect mixing ratio may result in moisture sensitivity, whitening, slow cure, soft spots, and other defects.

### Application

Apply the primer to the prepared substrate by dipping and rolling (using a bucket screen) with a 3/8”(1/2” or 3/4” may be required depending on substrate) solvent resistant roller. Roll out the material so that it is uniform in thickness. Refer to specific PDS for the material being used. Ensure that the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate. If necessary, apply an additional coat to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate.

- Freshly applied material should be protected from dampness, condensation and water for at least 72 hrs.
- Application by roller may result in a slight surface texture when using standard coverage rates. If a smoother surface is required apply 3 thinner coats to produce the same overall DFT or apply using a sprayer.
- Ensure entire surface is fully cured before proceeding with subsequent coats. Craze cracking may occur when over coating uncured surfaces or when material is applied above the recommended mil thickness.
- The gloss of the applied material is influenced by humidity, temperature and absorbency of the substrate.

- If heating is required do not use gas, oil, paraffin or other fossil fuel heaters, these produce large quantities of both CO<sub>2</sub> and H<sub>2</sub>O water vapor, which may adversely affect the finish. Use of unvented heaters and certain heat sources may result in coating defects (e.g. blushing, whitening, debonding, etc. For heating use only electric powered warm air blower systems.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. Application of clear or pigmented UV resistant top coat may not prevent discoloration of underlying coatings..
- This product is not designed for negative side waterproofing.
- Typically not recommended for exterior use.
- Be ware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.
- For professional use only by experienced applicators.

## 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.

## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

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. For CMU block or poured in place concrete walls that require a parge coat, SikaQuick® Smooth Finish Plus, consult data sheet for specific instructions. Adhere to preparation and application instructions of the repair product used.

Concrete - Should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by sand blasting, grinding or equivalent mechanical means. (CSP 2-3 as per ICRI guidelines). 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 recommended 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 roller splatter and/or overspray for spray applications. For new drywall, CMU or poured-in-place concrete walls, all Sikagard Descoglas systems can

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be pre-primed as outlined below.

Important note: Pre-prime preparation materials must be pre-approved by Sika Flooring Technical Service.

### Primer

Substrate Prep Material	Prep Material
New drywall	Sika Bonding Primer, 100% Acrylic drywall primer*
Concrete masonry unit (cmu)	SikaQuick® Smooth Finish, Sikadur Injection Gel, Sikagard Duroplast EE
Poured-in-place concrete	SikaQuick® Smooth Finish, Sikadur Injection Gel, Sikagard Duroplast EE

\*Ensure complete saturation of drywall substrate to minimize “soak in” of subsequent Sikagard DESCOGLAS™ coats. (Adhesion testing is required when Sika Bonding Primer is not applied).

### MIXING

#### Mixing Ratio - 2.5 : 1 by volume Use Sikafloor 217 Component B Hardener

For bulk packaging, each component must be pre-mixed separately to ensure product uniformity.

Pre-mix each component separately. Empty Component B (Hardener) in the correct mix ratio (see table below) into Component A (Resin). Mix the combined components for at least 2 minutes using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of material in the mixing container. Be careful not to introduce any air bubbles while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the coating. During the mixing sequence, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

### In Gallons

Mix Gal	Part A	Part B
1.06	0.9375	0.375
2.125	1.875	0.75
5.25	3.75	1.50

### In Quarts

Mix Quts	Part A	Part B
2.625	1.875	0.75
5.25	3.75	1.5
10.5	7.5	3
21	15	6

### In Ounces

Mix Ozs	Part A	Part B
42	30	12
84	60	24
168	120	48
336	240	96
672	480	192

### APPLICATION

Application of the Sikagard® 215 material, use a 3/8” nap roller, a 1/2” nap roller may be required on certain substrates.

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## OTHER RESTRICTIONS

See Legal Disclaimer.

## 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](http://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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