

Sikagard® 215

High Solids Reinforced/Resinous Wall and Ceiling Surfacing

Description Sikagard 215 RF System: Sikagard 215 is a Fiber Reinforced Epoxy Coating formulated with temperature resistant reinforced fibers. Sikagard 215 RF System consists of two coats of Sikagard 215 Resin and Sikafloor 216 Hardener. It can be top coated with a variety of available Sikagard topcoats. Typical thickness for Sikagard 215 RF is 20 mils DFT.

- Where to Use**
- 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

- 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

TYPICAL 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.

Packaging	Component A - Sikagard 215: 5 US gal. (18.9 L) Component B - Sikafloor 216: 5 US gal. (18.9 L)		
Color	White		
Coverage	160 - 200 ft ² / US gal (3.9 - 4.9 m ² / L) at 8 - 10 mils (0.20 - 0.25 mm) wet film thickness (w.f.t.).		
Pot Life	Material Temperature	Time	
	+68°F (20°C)	~ 35 minutes	
	+75°F (24°C)	~ 30 minutes	
	+86°F (30°C)	~ 25 minutes	
Waiting / Recoat Times	Before applying second coat Sikagard 215 allow:		
	Ambient & Substrate Temperature	Minimum	Maximum
	+50°F (10°C)	24 hours	3 days
	+68°F (20°C)	8 hours	2 days
	+86°F (30°C)	6 hours	1 day
Cure Times	Ambient & Substrate Temperature	Tack Free	Full cure
	+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.

Properties Tested at 73°F (23°C) and 50 % R.H:

VOC Content	ASTM D2369	≤ 13 g/L
Impact Resistance	Gardner Impact Tester	> 160 in/lb
Abrasion Resistance	ASTM D-1044-90	0.019 gram loss
Flexibility	ASTM D-522-88	Passes 1" mandrel without cracking
Chemical Resistance	Please consult Sikafloor Technical Services.	
Shelf Life	1 year in original unopened container under proper storage conditions. Store dry between 40° - 90°F (4° - 32°C)	



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**How to Use
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, Sikagard 121 Plus or use Sikagard EpoCem 75, 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 litanee 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 be pre-primed as outlined below. Important note: Pre-prime preparation materials must be pre-approved by Sika Flooring Technical Service.

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Primer

Substrate

- New drywall
- Concrete masonry unit (cmu)
- Poured-in-place concrete

Prep Material

- Sika Bonding Primer, 100% Acrylic drywall primer*
- SikaTop 121 Plus, Sikagard 75 EpoCem, Sikadur Injection Gel, Sikagard Duroplast EE
- SikaTop 121 Plus, Sikagard 75 EpoCem, 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.

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			In Quarts			In Ounces		
Mix Gal	Part A	Part B	Mix Qts	Part A	Part B	Mix Ozs	Part A	Part B
						42	30	12
			2.625	1.875	.75	84	60	24
1.06	0.9375	0.375	5.25	3.75	1.5	168	120	48
2.125	1.875	0.75	10.5	7.5	3	336	240	96
5.25	3.75	1.50	21	15	6	672	480	192

Application

Application of the Sikagard 215 Resin/Sikafloor 216 Hardener material, use a 3/8" nap roller, a 1/2" nap roller may be required on certain substrates.

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.).



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Substrate Moisture Content: Moisture content of concrete substrate must be $\leq 4\%$ 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 $> 4\%$. If moisture content of concrete substrate is $> 4\%$ by mass, use Sikafloor 1610 or Sikafloor 22NA PurCem.

When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be $\leq 85\%$. If values are $> 85\%$ according to ASTM F2170 use Sikafloor 1610 or Sikagard 75 EpoCem.

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° to 75°F (18° 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 CO₂ and H₂O 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.

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Industrial Flooring



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