

**Product Data Sheet**

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Identification no.

Sikafloor 225

## Sikafloor® 225 UV Resistant Epoxy System

<b>Description</b>	Sikafloor 225 is a low odor, high solids epoxy resin coating system primarily designed for high build coating and decorative quartz/flake applications.
<b>Where to Use</b>	<ul style="list-style-type: none"> <li>■ Ideal for clear, low odor top coats on decorative quartz or vinyl flake floor systems</li> <li>■ It can also be top coated with an aliphatic urethane when increased chemical and abrasion resistance are required.</li> </ul>
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ Light Stable formulation, UV Resistance properties superior to standard epoxies</li> <li>■ High solids/Low odor</li> <li>■ Attractive, high gloss, reflective coating</li> <li>■ Tough, smooth, non-porous surface is easy to clean and allows repeated washings and decontaminations</li> <li>■ Good abrasion resistance</li> <li>■ Excellent impact resistance</li> </ul>
<b>Chemical Resistance</b>	Please refer to the Sikafloor 225 chemical resistance guide or contact Sika Industrial Flooring Technical Service for specific chemical recommendations at 800-933-SIKA.

**Typical Data**

<b>Shelf Life</b>	2 years in original unopened container under proper storage conditions. Store dry between 40° - 90°F (5° - 32°C).		
<b>Coverage</b>	The theoretical coverage is: Sikafloor 225 is applied at 15 mils wet film thickness (w.f.t.). 3.0-gallon kit = 320 sq. ft. (29 sq. m.) 0.75-gallon kit = 80 sq. ft. (7.5 sq. m.)		
<b>Abrasion Resistance</b> <i>(Taber Abraser 1000 gm. load per wheel)</i>	ASTM D 4060	CS-17 Wheels 75-85 mgs. /1000 cycles	
<b>Impact Resistance</b>	ASTM D 2794 Gardner	16 in.-lbs. (18cm.-kg.) direct and reverse	
<b>Flexibility</b>	ASTM D 522 Conical Mandrel	1/4 in. (.62 cm.) passes test	
<b>Hardness</b>	ASTM D 3363 Pencil	2B	
<b>Adhesion</b>	Concrete failure (ASTM D 4541 Elcometer) Concrete: 350 psi (2.4 MPa)		
<b>Working Time &amp; Recoat Limits</b>			
<b>Temperature</b>	<b>Working Time</b>	<b>Recoat Time Minimum</b>	<b>Recoat Time Maximum</b>
60°F (15°C)	30 minutes	12 hours	48 hours
73°F (23°C)	20 minutes	8 hours	24 hours
90°F (32°C)	10 minutes	6 hours	18 hours
	<b>@ 60°F (15°C)</b>	<b>73°F (23°C)</b>	<b>90°F (32°C)</b>
<b>For minimum foot traffic</b>	16-20 hours	8-10 hours	6-8 hours
<b>For moderate foot/tow motor traffic</b>	20-24 hours	12-16 hours	8-10 hours
<b>Packaging</b>	Standard packaging consists of:		
	<b>Component</b>	<b>Container Size</b>	<b>Code</b>
	<b>3-gallon (11.3 liters) Kit</b>		
	Part R Resin	2-gallon (7.6 liters)	EPHB LS-B/5
	Part H Activator	1-gallon (3.8 liters)	CA-040-A/1
	Color Pack	1-pint (0.5 liter)	EP-xxxCP1/P
	<b>0.75-gallon (2.83 liters) Kit</b>		
	Part R Resin	1-gallon (3.8 liters)	EPHB LS-B/1
	Part H Activator	1-quart (0.9 liter)	CA-040-A/Q
<b>VOC (g/l)</b>	ASTM D2369-07		20.1 g/l



## How to Use Surface Preparation

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be dressed off to achieve a level surface prior to the application. Concrete should be cleaned and prepared to achieve a laitance and contaminant free, open textured surface by shot blasting or equivalent mechanical means. (CSP-3 as per ICRI guidelines). Sweep and vacuum any remaining dirt and dust with a wet/dry vacuum. Removing residual dust will help ensure a tenacious bond between the primer and substrate. Whenever "shot-blasting" is utilized, be careful to leave concrete with a uniform texture. Over "blasting" will result in reduced coverage rates of the primer and/or subsequent topcoats. The compressive strength of the concrete substrate should be at least 3500 psi (24 MPa) at 28 days and at least 250 psi (1.7 MPa) in tension at the time of application of Sikafloor 225.

## Mixing

For bulk packaging when not mixing full units each component must be pre-mixed separately to ensure product uniformity. It is important to remember that this coating has a limited pot life. Therefore it is recommended to check and make sure everything is in order before starting the mixing sequence.

1. Carefully empty the contents of the Sikafloor 225, Part "H" Hardener entirely into the can of Sikafloor 225, Part "R" Resin. The Part "R" container is oversized to allow for easy mixing.
2. Mix with a very low speed jiffy mixer, until completely blended. This will take about 2 to 3 minutes. 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 coating. During the mixing operations, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing. Mix only that quantity that can be used within its pot life.

## Application

Sikafloor 225 is applied by first pouring a bead of material in the form of a ribbon on the surface to be coated. The material should not be left in the container too long because it will set faster thus reducing the pot life. Using a notched squeegee, flat squeegee, or trowel spread the poured material at a rate of approximately 106 sq. ft. (9.90 m<sup>2</sup>) per gallon. Apply as evenly as possible, working from left to right, and then back. Back roll using a high quality 3/8" nap roller. Roll with a plastic loop roller after 5-10 minutes to remove excess bubbles. Back roll the Sikafloor 225 only to level the squeegee applied material; over-rolling will cause bubbling.

## Limitations

- Minimum/Maximum substrate temperature: 60°F/85°F (15.5°C/30°C).
- Maximum relative humidity: 85%.
- Substrate temperature must be at least 5°F (3°C) above measured dew point.
- Conduct quantitative anhydrous calcium chloride testing in accordance with ASTM-F1869. Maximum acceptable test result is 3 pounds per 1,000 ft<sup>2</sup> per 24 hours. 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. If over, use Sikafloor EpoCem 81/82 or Sikafloor Vapor Block.
- Freshly applied Sikafloor 225 should be protected from dampness, condensation and water for at least 24 hrs.
- Do not thin this product. Addition of thinners will slow the cure and reduce the ultimate properties of this product. Critical recoat times will also be affected.
- This product is not designed for exterior use, immersion, or any use where moisture can reach the underside of the resurfacer.
- 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.

## Caution

**COMPONENT R: CAUTION: IRRITANT, SENSITIZER.** Contains Epoxy Resins (Mixture). May cause eye/skin irritation. May cause skin sensitization after prolonged contact

**COMPONENT H: WARNING: CORROSIVE, IRRITANT, SENSITIZER.** Avoid direct contact. Contains Amines (Mixture). Corrosive to eyes/skin/respiratory tract. Causes burns to eyes/skin/respiratory tract. Causes severe eye/skin irritation. Harmful if swallowed. May cause burns to mouth, throat, and stomach. Harmful if inhaled. May cause skin and/or respiratory sensitization after prolonged contact. **Strictly follow all usage, handling and storage instructions.**

Deliberate concentration of vapors of 'R' &/or 'H' components for purposes of inhalation is harmful and can be fatal.

# Industrial Flooring

<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. Contact physician. <b>In all cases, contact a physician immediately if symptoms persist.</b>	
<b>Handling &amp; 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>	Avoid contact. Wear chemical resistant clothing/gloves/goggles. In absence of adequate ventilation; use a properly fitted NIOSH respirator. Uncured material can be removed with approved solvent. Follow solvent manufacturer's instructions for use and warnings. Cured material (when Component R combined with Component H) can only be removed mechanically. In case of spill, ventilate area and contain spill. Collect with absorbent material. Dispose of in accordance with current, 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.sikafloorusa.com">www.sikafloorusa.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.	
<b>Trouble Shooting</b>	<b>Problem Observed</b>	<b>Possible Causes</b>
	Fisheyes	Oil Contamination; Improper substrate cleaning; Mold release agents; Improper mixing.
	Peeling From Substrate	Insufficient preparation process; Oil impregnation; Moisture in concrete.
	Peeling Between Coats	Past critical recoat time; Contamination between coats.
	Coating Soft, Dulling	Improper mixing; Use of thinner in product; Extreme weather conditions.
	Slow Cure	Low floor and ambient temperatures; Use of thinner in product; Improper mixing; Product applied too thin.
	Fast Cure	High floor and ambient temperatures.
	Bubbling	High temperatures and or direct sunlight exposure; Excessive substrate outgassing due to rising temperatures; Working product past pot life; Improper mixing overworked the product.

**KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR INDUSTRIAL USE ONLY**

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