

# Sikafloor® 205

## Thixotropic Epoxy Mortar Topcoat

<b>Description</b>	A two-component, high solids, thixotropic, epoxy based top dressing for use with Sikafloor Epo-Rok® Flooring systems. Can be used as clear or with Epoxy Color Additive to achieve a variety of colors.
<b>Where to Use</b>	Designed for use as a top dressing over Sikafloor Epo-Rok® Flooring Systems to enhance abrasion and chemical resistance. It can be applied as a stand alone coating.
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ Thixotropic - will not drain into porous areas</li> <li>■ High solids system - low odor</li> <li>■ Excellent Color Retention</li> <li>■ Good chemical and wear resistance</li> <li>■ Fast curing - minimum downtime</li> </ul>

### 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 205. For application to a newly installed epoxy flooring, make sure the surface has cured sufficiently and is 60°F or higher.

#### Typical Data

<b>Colors</b>	Clear. Other colors available with use of Epoxy Color Add	
<b>Coverage</b>	Approximately 450-600 sq. ft. (42 - 56 m <sup>2</sup> ) coverage per kit over relatively tightly finished Sikafloor Epo-Rok® Flooring system. The actual coverage will be determined by the texture of the epoxy flooring being top coated and how tightly Sikafloor 205 is applied to the surface.	
<b>Thickness</b>	Typically 6-8 mils	
<b>Pot Life @ 75°F (24° C)</b>	30 minutes. High temperature and high humidity will accelerate curing and pot life.	
<b>Cure Rate @ 75°F (24° C)</b>	8-10 hrs. - Foot Traffic 18-24 hrs. - Medium Loads 48+ hrs. - Heavy Loads or Chemical Resistance	
<b>Shelf-Life</b>	Two years in original unopened container under proper storage conditions. Store dry between 40° - 90°F (5° - 32°C).	
<b>Typical Physical Properties:</b>		
<b>Hardness Shore D Durometer</b>	ASTM D-2240	82-85
<b>Bond Strength</b>	ASTM D-4541	>400 psi (2.76 MPa) (100% concrete failure)
<b>Abrasion Resistance</b> <i>(CS-17 Wheel, 1000 gm load, 1000 cycles)</i>	ASTM D-4060	29 mg max
<b>Flammability</b>	ASTM D-635	Self Extinguishing
<b>Above typical values based on cure @ 75° F (24° C)</b>		
<b>VOC (g/l)</b>	ASTM D2369-07	8.5 g/l

**Packaging:** Sikafloor 205 is packaged into 2.45 gal. pre-proportioned kits for easy jobsite mixing and application. Each kit consists of one gallon can of Part "H" Hardener and one 5-gallon pail, short filled, of Part "R" Resin.



<b>Mixing</b>	<p>For bulk packaging when not mixing full units each component must be pre-mixed separately to ensure product uniformity.</p> <p>It is important to remember that this coating has a limited pot life. Therefore, make sure everything is in order before starting the mixing sequence.</p> <p>For application to an existing Epo-Rok Floor, it is recommended that a pigmented rather than a clear top dressing be used to help eliminate any shading which may have occurred.</p> <p><b>Color Additives:</b> If color is desired, the appropriate Sikafloor Epoxy Color Additive is added to the "Color Base" Part "R" Resin at the rate of 1 quart per 2.45 gallon kit for all colors except for white, yellow or bright red. These will require 2 quarts per batch. <i>Refer to the Epoxy Color Add Data Sheet for specific ratios. Mix at low speed for a minimum of two minutes.</i></p> <ol style="list-style-type: none"> <li>Carefully empty the contents of the Part "H" Hardener entirely into the can of Part "R" Resin. The Part "R" container is oversized to allow for easy mixing.</li> <li>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.</li> <li>Do not mix less than full batch quantities.</li> </ol>
<b>Application</b>	<p>Immediately pour the mixed contents onto the floor in the form of a bead and spread tightly over the surface using a rubber squeegee. Then, using a good quality 3/8" nap solvent resistant roller cover, remove any lap marks in the coated surface by back rolling lightly. This product is designed for use as is and therefore thinning or reducing with solvents is not recommended.</p>
<b>Critical Recoat Time</b>	<p>It is important to apply subsequent coats or other topcoats within 12 to 24 hours (under normal curing conditions). If the Sikafloor 205 is allowed to cure longer than the 24 hours before subsequent recoats, screening will be necessary. The floor surface should be screened to the effect that a uniform dullness is achieved. There should be no gloss present on the floor after screening/vacuuming before applying the next coat</p>
<b>Limitations</b>	<ul style="list-style-type: none"> <li>■ Minimum/Maximum substrate temperature: 60°F/85°F (15.5°C/30°C).</li> <li>■ Maximum relative humidity: 85%.</li> <li>■ Substrate temperature must be at least 5°F (3°C) above measured dew point.</li> <li>■ 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.</li> <li>■ Do not use on exterior, on-grade substrates.</li> <li>■ Freshly applied Sikafloor 205 should be protected from dampness, condensation and water for at least 24 hrs.</li> <li>■ 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.</li> <li>■ This product is not designed for exterior use, immersion, or any use where moisture can reach the underside of the resurfacer.</li> <li>■ 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.</li> </ul>
<b>Caution</b>	<p><b>COMPONENT R: WARNING - IRRITANT, SENSITIZER:</b> Contains epoxy resins, Furfuryl Alcohol (CAS 98-00-0). Eye irritant. May cause skin/respiratory irritation. Prolonged and/or repeated contact with skin may cause allergic reaction/sensitization. Deliberate concentration of vapors for purposes of inhalation is harmful and can be fatal. Harmful if swallowed. <b>Strictly follow all use, handling and storage instructions.</b></p> <p><b>COMPONENT H: WARNING: CORROSIVE, SENSITIZER, IRRITANT.</b> Contains amines (mixture), bisphenol A (CAS 80-05-7). Contact with skin and eyes causes severe burns. Respiratory irritant. May cause eye/skin irritation. Possible skin sensitization/allergic reaction with prolonged or repeated exposure. Harmful if swallowed. Deliberate concentration of vapors for purposes of inhalation is harmful and can be fatal. <b>Strictly follow all handling, use and storage instructions.</b></p>
<b>First Aid</b>	<p><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 physician. In all cases contact a physician immediately if symptoms persist.</b></p>



# Industrial Flooring

<b>Handling and Storage</b>	Wear protective equipment (gloves/safety glasses/clothing) to prevent contact with skin and eyes. Keep container closed in a cool dry place. Wash skin thoroughly with soap and water after use. Use with adequate, general and local, exhaust ventilation. In absence of adequate ventilation, use a properly fitted NIOSH respirator. Remove contaminated clothing. Launder before reuse. Store in cool, dry and well ventilated area with container closed.	
<b>Clean Up</b>	Avoid direct contact with eyes and skin. Wearing chemical resistant goggles/gloves/clothing, collect spill. Ventilate area. In absence of adequate ventilation, use properly fitted NIOSH respirator. Sweep up spill and place in closed container. Dispose of in accordance with applicable local, state and federal environmental 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. Before applying for protection against specific chemical environments, consult Chemical Resistance Guide or Sika Technical Service.	
<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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