

Sikafloor® 215

Clear Epoxy Topcoat

Description	A two component high solids, low viscosity, clear epoxy coating designed to be applied from 5 to 15 mils. It can be installed as a stand alone coating or used as a binder in a slurry/broadcast system. Sikafloor 215 is available in clear or with Sikafloor Epoxy Color Additive to achieve a variety of colors. Sikafloor 215 is water clear and has excellent aesthetic properties.
Where to Use	Sikafloor 215 can be used as a stand alone coating, grout coat, top coat, and as a binder in a decorative system. Typical applications would include auto dealerships, institutions, laboratories, and bathroom/shower areas. Sikafloor 215 should be considered where ever limited UV exposure is a concern.
Advantages	<ul style="list-style-type: none"> ■ High Solids ■ Water clear, high gloss ■ Versatility ■ Chemical resistant ■ Meets USDA requirements for incidental food contact
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. It is also possible that the texture of the "shot-blast" pattern may show through the last coat. This is known as "tracking". 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 215.
Priming	Sikafloor 107 should be applied at 275-300 sq. ft. (6.75 - 7.36 m ²) per gallon, over damp or dry concrete. Rough concrete surfaces will result in reduced coverage. Allow to cure (varies with temperature and humidity) until tack free and clear in appearance before applying subsequent coats.

Typical Data

Colors	Clear and other colors available with use of Epoxy Color Add	
Coverage	Approximately 105 to 160 sq. ft. (9.75 - 14.9 m ²) per mixed gallon at 10 to 15 mils.	
Pot Life @ 75°F (24° C)	The pot life on this product is approximately 35 minutes at 75°F (24°C) and 50% R.H. High temperature and high humidity will accelerate curing and reduce pot life.	
Working Time	Approx. 35 minutes @ 75°F (24° C) and 50% relative humidity	
Cure Rate @ 75°F (24° C)	9-10 hrs - Foot traffic 24 hrs - Light traffic 72 hrs - Heavy traffic and/or chemical spillage	
Shelf-Life	Two years in unopened container. Store dry between 40° - 90°F (5° - 32°C).	
Typical Physical Properties:		
Hardness (Shore D)	ASTM D-2240	80 @ 75°F (24° C)
Bond Strength	ASTM D-4541	>400 psi (2.76 MPa) (100% concrete failure)
Tensile Strength	ASTM D 638	7400 psi (51 MPa)
Compressive Strength	ASTM D 695	11,000 psi (75.8 MPa)
Above typical values based on 7 days cure @ 75 °F (24° C)		
VOC (g/l)	ASTM D2369-07	33.8 g/l

Packaging: Sikafloor 215 is packaged in pre-proportioned 3 gallon kits for easy jobsite mixing as well as in 15 gallon and 165 gallon bulk kits. Each 3 gallon kit consists of one gallon of Part "H" Hardener in a one gallon can packed in a corrugated carton (two per carton) and two gallons of Part "R" Resin in a 5 gallon pail short filled to serve as the mixing vessel. Must order in multiples of two kits (6 gallons total), one carton containing two Part H's and two short filled pails of Part R. A 15 gallon bulk kit consists of two full 5 gallon pails of Part "R" Resin and one full 5 gallon pail of Part "H" Hardener. A 165 gallon bulk kit consists of two full 55 gallon drums of Part "R" Resin and one full 55 gallon pail of Part "H" Hardener.

<p>Mixing</p>	<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 it is recommended to check and make sure everything is in order before starting the mixing sequence.</p> <p>Color Additives: If color is desired, the appropriate Sikafloor Epoxy Color Additive is added to the "Clear" Part "R" Resin at one quart per three mixed gallons. <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"> 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 (3 gallon kit only). For 15 and 165 gallon kits, add two parts Resin (Part R) and one part Hardener (Part H) by volume to a clean mixing container. Do not count Epoxy Color Additive in the volume ratio. 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.
<p>Application</p>	<ol style="list-style-type: none"> This product should be 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 105-160 sq.ft. (9.75 - 14.9 m²) 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.
<p>Critical Recoat Time</p>	<p>It is important to apply subsequent coats of this and other products within 12 to 24 hours (under normal curing conditions). If Sikafloor 215 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 before applying the next coat.</p>
<p>Limitations</p>	<ul style="list-style-type: none"> ■ 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 ft² 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. ■ Do not use on exterior, on-grade substrates. ■ Freshly applied Sikafloor 215 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. ■ 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.
<p>Caution</p>	<p>COMPONENT R: WARNING - IRRITANT, SENSITIZER: Contains epoxy resins, Nonyl Phenol (CAS 25154-52-3). 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. Strictly follow all use, handling and storage instructions.</p> <p>COMPONENT H: WARNING: CORROSIVE, SENSITIZER, IRRITANT. Contains amines (mixture). Contact with skin and eyes causes severe burns. Respiratory irritant. May cause eye/skin irritation. Possible 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. Strictly follow all handling, use and storage instructions.</p>



Industrial Flooring

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	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.	
Clean Up	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.	
Additional Info	Technical Data Sheets are updated periodically. To ensure the most current version is being used, visit Technical Resources on www.sikaflorusa.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.	
Trouble Shooting	Problem Observed	Possible Causes
	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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Sika warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Technical Data Sheet if used as directed within shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKASHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKASHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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