

# Sikafloor® 700

## Chemical Resistant Coating

<b>Description</b>	A two component, high solids, novolac epoxy with exceptional chemical resistance. Sikafloor 700 can be installed as a stand-alone coating. Its versatility allows Sikafloor 700 to be applied as a topcoat for many of the Sika flooring systems or used as a binder in a slurry/broadcast system. Can be applied as a clear topcoat or with Sikafloor Epoxy Color Additive to create a variety of colors.
<b>Where to Use</b>	Designed for use as a medium to heavy coat epoxy resurfacer in areas subjected to extremely harsh chemical spillages. Ideal for use in chemical processing, chemical storage areas, and battery charge stations.
<b>Advantages</b>	<ul style="list-style-type: none"> <li>■ High Solids system - Low Odor</li> <li>■ Extremely high chemical resistance</li> <li>■ Wide range of colors with Epoxy Color Add</li> <li>■ Easy application</li> <li>■ Meets USDA requirements for incidental food contact</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 700.

#### Typical Data

<b>Colors</b>	Clear and other colors available with use of Epoxy Color Additive	
<b>Coverage</b>	Approximately 80-130 sq. ft. (7.4 - 12 m <sup>2</sup> ) at 12 to 20 mils w.f.t per gallon or 240-390 (22 - 36 m <sup>2</sup> ) sq. ft. per 3 gallon unit over primed, relatively smooth, dense concrete surfaces. Actual coverage will vary depending on the texture and porosity of the substrate.	
<b>Recommended Film Thickness</b>	12 mils/coat at 133 sq. ft. per gallon	
<b>Pot Life @ 75°F (24° C)</b>	The pot life on this product is approximately 20 minutes at 75°F (24° C) and 50% R.H. High temperature and high humidity will accelerate curing and reduce pot life. Do not mix more kits of material than can be used within this period of time.	
<b>Cure Rate @ 75°F (24° C)</b>	12 hrs.- Foot traffic 24 hrs.- Light traffic 72 hrs.- Heavy traffic and/or chemical spillage	
<b>Shelf-Life</b>	2 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)</b>	ASTM D-2240	85-88
<b>Bond Strength</b>	ASTM D-4541	>400 psi (2.76 MPa) (100% concrete failure)
<b>Impact Resistance</b> (CS-17 wheel, 1000 cycles, 1000 gm load)	ASTM D-2794 Taber Abraser	160 in-lbs.
<b>Abrasion Resistance</b>	ASTM D-4060	25 mg loss
<b>Flammability</b>	ASTM D-635	Film is Self Extinguishing
<b>VOC (g/l)</b>	ASTM D2369-07	14.3 g/l
<b>Compressive Strength</b>	ASTM D-695	9400 psi (28 days)
<b>Tensile Strength</b>	ASTM D-638	4340 psi (7 Days)
<b>Elongation</b>	ASTM D-638	24%

Above typical values based on cure @ 75°F (24° C)

**Packaging:** Sikafloor 700 is packaged in proportioned kits for easy job site mixing and application. Each kit consists of 1 pre-measured five-gallon pail of Part "R" Resin, and one-gallon container of Part "H" Hardener packaged in a corrugated carton.



# Industrial Flooring

<b>Priming</b>	Sikafloor 107 should be applied at 275-300 sq. ft. (6.75 - 7.36 m <sup>2</sup> ) 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.
<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 it is recommended to check and make sure everything is in order before starting the mixing sequence.</p> <p><b>Color Additives:</b> If color is desired, the appropriate Sikafloor Epoxy Color Additive is added to the "Clear" Part "R" Resin at one quart per 2.6 mixed gallons. Do not count Sikafloor Epoxy Color Additive in the volume ratio. <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>1. 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>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.</li></ol>
<b>Application</b>	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 133 sq. ft. (12.35 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.
<b>Critical Recoat Time</b>	It is important to apply subsequent coats of this and other products within 12 to 24 hours (under normal curing conditions). If Sikafloor 700 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.
<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.</li><li>■ Freshly applied Sikafloor 700 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.</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 (Mixture). May cause eye/skin/respiratory irritation. Prolonged and/or repeated contact with skin or by inhalation may cause allergic reaction/sensitization. Harmful if swallowed.</p> <p><b>COMPONENT H: WARNING: CORROSIVE, SENSITIZER, IRRITANT.</b> Contains Amines (Mixture). Avoid direct contact. Corrosive to eyes/skin/respiratory tract/digestive tract. Causes burns to skin. May cause burns to eyes/respiratory tract. Harmful if swallowed. May cause burns to mouth, throat, and stomach. Causes respiratory sensitization. Prolonged and/or repeated contact with skin may cause allergic reaction/sensitization. <b>Strictly follow all usage, handling and storage instructions. Deliberate concentration of vapors of 'R' and/or 'H' components for purposes of inhalation is harmful and can be fatal.</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>	
<b>Handling and Storage</b>	<p>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.</p>	
<b>Clean Up</b>	<p>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.</p>	
<b>Additional Info</b>	<p>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. Before applying for protection against specific chemical environments, consult Chemical Resistance Guide or Sika Technical Service.</p>	
<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	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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