Product Data Sheet
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Sikafloor® 107

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Low Modulus, Low Viscosity Epoxy Primer

Industrial Flooring

Description

A two component high solids, low modulus, low viscosity epoxy primer. This epoxy primer is specially formulated to form a tough flexible film. This resilient primer has stress relieving and moisture tolerant properties.

Where to Use

Sikafloor 107 is designed as a primer for Sikafloor epoxy and urethane coatings as well as the broadcast and troweled systems. Sikafloor 107 should be considered where UV exposure is a concern.

Advantages

- Extremely low VOC's
- Low tensile modulus
- Higher tensile elongation
- Excellent penetration and adhesion
- Moisture tolerant

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 107.

Mixing

For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity.

Mixing Ratio - Two Parts Resin to One Part Hardener by Volume (2:1 by volume).

For pigmentation, use one quart of Epoxy Color Additive for 3 mixed gallons. Some "color streaking" may occur after Sikafloor 107 has cured.

Color Additives: 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 large batch for all colors except for white, yellow or bright red. These will require 2 quarts per batch. *Refer to the Epoxy Color Add Data Sheet for specific ratios. Mix at low speed for a minimum of two minutes.*

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 (3 gallon kit only). For 15 and 165 gallon kit, add two parts Resin (Part R) and one part Hardener (Part H) by volume to a clean mixing container.
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.
3. Since this product does not need any induction time, it can be used immediately after thorough mixing

Typical Data

Coverage	160-320 sq. ft. (14.9 - 29.7 m^2) per mixed gallon at 5 - 10 mils wet film thickness.	
Cure Times	At 75°F (24°C), the primed area should be ready for foot traffic within 6-8 hours.	
Pot Life	The pot life on this product is approximately 25 minutes at 75°F (24°C) and 50% R.H. High temperature and high humidity will accelerate curing and reduce pot life.	
Recoat Time	6-24 hrs. at 77°F	
Tensile Strength (ASTM D 638)	3410 psi	
Tensile Elongation (ASTM D 638)	15% to 20%	
VOC (g/l)	ASTM D2369-07	23.5 g/l

Packaging: Sikafloor 107 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

Industrial Flooring

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.

Shelf Life: 2 years in original unopened container under proper storage conditions. Store dry between 40° - 90°F (5°-32°C).

Application	Apply primer by roller, trowel or squeegee at the rate of 160-320 square feet (14.9 - 29.7 m^2) per mixed gallon at 5 - 10 mils wet film thickness. Coverage will vary depending on the porosity of the prepared floor. This product has a limited pot life. Product should not be applied by dipping roller into kit container, but by pouring a bead of product in the form of a ribbon on the surface to be coated.
Critical Recoat Time	It is important to apply subsequent coats of this and other products within 6 to 24 hours (under normal curing conditions). If this coating is allowed to cure longer than the 24 hours before subsequent recoats, light sanding will be necessary. The floor surface should be sanded/abraided 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.
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^2 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 107 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: 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.** **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.**
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.sikafloorusa.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.

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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.

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Regional Information and Sales Centers. For the location of your nearest Sika sales office, contact your regional center.

Sika Corporation
201 Polito Avenue
Lyndhurst, NJ 07071
Phone: 800-933-7452
Fax: 201-933-6225

Sika Canada Inc.
601 Delmar Avenue
Pointe Claire
Quebec H9R 4A9
Phone: 514-697-2610
Fax: 514-694-2792

Sika Mexicana S.A. de C.V.
Carretera Libre Celaya Km. 8.5
Fracc. Industrial Balvanera
Corregidora, Queretaro
C.P. 76920
Phone: 52 442 2385800
Fax: 52 442 2250537

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