

Product Data Sheet
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Sikafloor® 105

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Epoxy Epo-Rok Mortar Primer

Description	A two-component, penetrating high solids, light amber, epoxy-based primer/bond coat.
Where to Use	Designed for use as a primer/bond coat specifically in conjunction with Sikafloor Epo-Rok® epoxy mortar system. Formulated to penetrate and reinforce the concrete substrate in addition to ensuring a tenacious bond between the Sikafloor Epo-Rok epoxy mortar and the concrete floor.
Advantages	<ul style="list-style-type: none"> ■ Excellent wetting properties. ■ Ensures good bond between substrate and Sikafloor Epo-Rok Mortar. ■ Improves trowelability of epoxy mortar. ■ Seals substrate, reducing the risk of pinholes.

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 105.

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

1. Carefully empty the contents of the Part "H" Hardener entirely into the can of Part "R" Resin.
2. Product should be mixed using a "Jiffy Mixer" and a slow speed drill (300-450 rpm) to minimize entrapping air. Mix until completely blended. This will take about 1-1/2 to 2 minutes be careful to mix the contents completely to avoid weak spots in the primer. 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 Using a flat squeegee and high quality 3/8" nap roller, apply Sikafloor 105 evenly at the rate of 800-1,200 sq. ft. (74.3 - 111.5 m²) per 4.8 gallon kit. Avoid leaving puddles in rougher areas. The application of the Epo-Rok Mortar should begin soon after the Sikafloor 105 mortar primer is applied. If Sikafloor 105 is allowed to become tack free, the surface must be reprimed before application. Ensure that the primer is pore free, pin hole free and provides uniform and complete coverage of the entire substrate.

Typical Data

Results may differ based upon statistical variations depending upon mixing methods and equipment, temperature, application methods, test methods, actual site conditions and curing conditions.

Coverage	Approximately 800-1,200 sq. ft. (74.3 - 111.5 m ²) per 4.8 gallon kit over properly prepared concrete floor.
Pot life	Approximately 30 minutes if applied as indicated above at 75°F (24°C). There is approximately 2 hours open time after the primer is applied before it will become too firm to adhere to.
Shelf Life	2 years in original unopened container under proper storage conditions. Store dry between 40° - 90°F (5° - 32°C).
VOC (g/l)	ASTM D2369-07 12.0 g/l
Packaging	Sikafloor 105 is packaged in kits as pre-proportioned batches for easy jobsite mixing and application. Each two batch unit consists of 2 loose 5 gallon pails of Part "R" Resin and 2 one gallon cans of Part "H" Hardener which are packed together in a corrugated box. The contents of one can of Part "H" are completely added to the contents of one pail of Part "R". The pail is oversized for mixing. Each mixed batch contains 2.4 gallons, 4.8 gallons per two-batch kit.

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Limitations

- Minimum/Maximum substrate temperature: 60°F/85°F (15.5°C/30°C).
- Maximum ambient relative humidity: 85%
- Substrate temperature must be at least 5°F (3°C) above measured dew point.
- Substrate Moisture Content: Moisture content of concrete substrate must be < 4% by mass (pbw – part by weight) as measured with Tramex® moisture meter (as per ASTM F 2659) on mechanically prepared concrete surface according to this datasheet (see preparation section).
- If moisture content of concrete substrate is > 4% by mass (pbw – part by weight) as measured with Tramex® moisture meter (ASTM F 2659), use appropriate moisture tolerant Sika Primer or Sikafloor 81 EpoCem
- Just prior to application, confirm substrate moisture content, ambient relative humidity, and dew point. During installation, confirm above values at least two times every 6 hours.
- Apply the primer to the prepared surface using a squeegee and back roll to provide uniform coverage. Ensure that the coating is pore free, pin hole free and provides uniform and complete coverage of the entire concrete substrate. If necessary, apply an additional primer coats to achieve a pore/pinhole free surface.
- It is recommended, when installing over concrete substrates, to install Sikafloor 105 during steady or declining ambient temperatures to minimize the risk of concrete outgassing. Concrete outgassing may result in pinholing of the Sikafloor 105.
- Precondition material for at least 24 hours to between 65 F to 80 F (18 C – 26.5 C)
- Freshly applied Sikafloor 105 should be protected from dampness, condensation and water for at least 24 hrs.
- Do not thin this product. Addition of thinners will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty.
- 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.
- Do not hand mix Sikafloor® materials / mechanical mix only
- For professional use only by experienced applicators

Caution	<p>COMPONENT R: WARNING - IRRITANT, SENSITIZER: 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. Strictly follow all use, handling and storage instructions.</p> <p>COMPONENT H: WARNING: CORROSIVE, SENSITIZER, IRRITANT. 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. Strictly follow all handling, use and storage instructions.</p>
First Aid	<p>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.</p>
Handling and Storage	<p>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 well ventilated area with container closed.</p>
Clean Up	<p>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.</p>
Additional Info	<p>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.</p>

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The Sika logo consists of the word "Sika" in a bold, yellow, sans-serif font, set against a red triangular background. A registered trademark symbol (®) is located to the right of the text.

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