

Sikafloor® 104

Epoxy Patching Mortar

Description	A high solids, three component epoxy patch kit. Sikafloor 104 consists of a resin and a hardener and a specially blended bag of aggregate.
Where to Use	Designed for patching and repairing worn and eroded concrete floors in a variety of industries from light to heavy duty. Can be mixed and applied on the job site at a 1/4 inch (6mm) or greater. Formulated to repair and protect concrete floor areas that have been subjected to the harsh effects of abrasive traffic and strong chemical spillages.
Advantages	<ul style="list-style-type: none"> ■ Pre-packaged for ease of use ■ Exceptionally easy to apply ■ Fast curing, little downtime ■ Three times stronger than concrete ■ High Solids/Low Odor ■ Resists a broad range of chemicals ■ Resistant to steel-wheeled traffic ■ Meets USDA standards 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. 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 104.
Chemical Resistance	Refer to Sikafloor 104 Chemical Resistance Guide for Sikafloor or contact Sika Technical Services at 800-933-Sika (7452)
Mixing	<ol style="list-style-type: none"> 1. Empty the entire contents of the resin and hardener components into the supplied six gallon mixing pail. 2. Mix components until thoroughly blended together for approximately 2 minutes using a "Jiffy Mixer" at low speed (300-450 rpm). 3. The Part C Aggregate is then poured into this pail containing the liquids and blended completely with the aggregate using a "Jiffy Mixer" at low speed (300-450 rpm) for approximately 2 to 3 minutes.
Application	Sikafloor 104 Epoxy Patch Mortar is immediately used after mixing to fill in any holes, cracks and crevices first using a margin trowel. The material is then spread with a screed rake or trowel to the appropriate thickness required. Finally the material is finished to a smooth surface using a steel finishing trowel. The finished surface should be relatively smooth, free of trowel marks and without open areas.

Typical Data

Coverage @ 1/4" (6mm)	Each unit will yield 0.30 cubic feet of patching compound, which equals approximately 15 sq. ft. (1.39m ²) at a nominal 1/4 (6mm) inch thickness
Pot Life @ 75°F (24° C)	25 minutes at 75F (24° C) and 50% RH.
Shelf-Life	Two years in original unopened containers under proper storage conditions. Store dry between 40° - 90°F (5° - 32°C).
Cure Rate @ 75°F (24° C)	7-8 hours for foot traffic 18-24 hours for light loads. 72 hours for chemical spillages and heavier loads
VOC (g/l)	ASTM D2369-07 13.5 g/l
Packaging: Each unit consists of one can of Part "H" Hardener, one can of Part "R" Resin and one bag of Part "C" Aggregate. All three components are packed in a pail, which also serves as a mixing vessel.	

Critical Recoat Time	It is important to apply subsequent coats of this and other products within 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/abraded 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	<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. ■ Freshly applied Sikafloor 104 mortar 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. ■ 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
Caution	<p>Component R: WARNING: IRRITANT, SENSITIZER. Contains Epoxy Resins (Mixture). May cause eye/skin/respiratory irritation. May cause skin and/or respiratory sensitization after prolonged contact. Harmful if swallowed. Strictly follow all use, handling and storage instructions.</p> <p>Component H: WARNING: CORROSIVE, IRRITANT, SENSITIZER. Contains Amines (Mixture). Contact with skin and eyes can cause severe burns. May cause burns to digestive tract. May cause skin and/or respiratory sensitization after prolonged contact. May cause respiratory irritation. Harmful if swallowed.</p> <p>Deliberate concentration of vapors of 'R' &/or H' components for purposes of inhalation is harmful and can be fatal.</p>
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. Store in cool dry well ventilated area with container closed.
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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