

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. Preparation Work: 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 blastcleaning or equivalent mechanical means. (CSP3 as per ICRI guidelines). The compressive strength of the concrete should be at least 3500 psi (24 MPa) at 28 days and at least 200 psi (1.4 MPa) in tension at the time of Sikafloor 82 EpoCem application.

Mixing

Shake components A and B then pour them into an appropriate [5 gal. (20 L)] sized mixing container. Pre-mix thoroughly with an electric or pneumatic mixer at low speed (300-450 rpm) for 30 sec. Progressively add component C while mixing. Continue to mix thoroughly for 3 min after the complete addition of component C. Use an Exomixer type mixing paddle (recommended model). During the mixing operation, scrape down the sides and bottom of the pail with a flat or straight edge trowel at least once to ensure thorough mixing. Upon completion of mixing, Sikafloor 82 EpoCem should be uniform in consistency.

Application

Primer for Self-Leveling Mortar - Sika EpoCem Module (A+B) at a rate of 200-400 ft²/gal. (5-10 m²/L), using a brush or roller of appropriate length nap to control the coverage according to concrete surface profile. Avoid puddling. Apply self-leveling mortar after 1 hrs. [68°F (20°C)] minimum waiting time, but within 3 hrs [68°F (20°C)] maximum.

Note: For porous or excessively absorbent concrete, prime with a second application of Sika EpoCem Module at a rate of 200-400 ft²/gal. (5-10 m²/L).

Primer for Extended Mortar - As a primer for extended mortar with oven-dried silica sand, use Sikadur[®] 32 Hi-Mod or Sikafloor[®] 89 in accordance with the respective technical data sheet.

Self-Leveling Mortar - After mixing, apply self-leveling mortar without delay using a flooring trowel or screed rake (rubber or metal) to obtain an even coverage. Immediately work with a spiked roller to ensure uniform thickness and to remove entrapped air. Limit mortar coating thickness to 160-280 mils (4-7 mm). When Sikafloor 82 EpoCem has cured sufficiently, sand if required and apply appropriate Sikafloor[®] coating directly over the mortar coating. Maintain the mortar coating in a clean, dry surface condition prior to Sikafloor[®] coating application, ideally within 3 days.

Note: Mix consistency may be adjusted to suit application requirements by slightly reducing the powdered component C by a maximum of 10% by weight. A light sprinkling of oven-dried silica sand will prevent the mortar coating from drying out too rapidly. Do not apply excess sand.

Extended Mortar with Silica Sand - To proceed with local repairs and slope corrections for thicknesses of ¼-8 in (6- 200 mm), Sikafloor 82 EpoCem can be extended with oven-dried silica sand.

Limitations

- Minimal thickness of self-leveling mortar: 160 mils (4 mm).
- Maximum thickness of self-leveling mortar: 280 mils (7 mm).
- Minimum substrate temperature: 45°F (8°C).
- Maximum substrate temperature: 85°F (30°C).
- Maximum relative humidity 85%.
- On no account should water be added to the mix.
- Minimum mortar thickness when used as a vapor barrier for subsequent coating: 160 mils (4 mm).
- Maximum moisture content in Sikafloor 82 EpoCem prior to subsequent application of an epoxy resin based, Sikafloor coating: 4% by weight.

Caution

WARNING: COMPONENT 'A': IRRITANT, SENSITIZER. Avoid direct contact. Contains Epoxy Novolac Resin (CAS 28064-14-4) and Epoxy Resin (CAS 025068-38-6). May cause eye/ skin/respiratory irritation. Prolonged and/or repeated skin/respiratory contact may cause allergic reaction/sensitization. May be harmful if swallowed. **WARNING: COMPONENT 'B': CORROSIVE, IRRITANT, SENSITIZER.** Contains Proprietary blend of Aliphatic amines (mixture). Causes eye irritation. Contact with eyes/skin causes burns. May cause skin/respiratory irritation. Prolonged and/or repeated skin contact may result in allergic reaction/sensitization. Harmful if swallowed. **WARNING: COMPONENT 'C': IRRITANT, SENSITIZER.** Avoid direct contact. Contains Calcium Silicate (CAS 1344-95-2), Magnesium Oxide (CAS 1309-48-4) and Silica Quartz (CAS 14808-60-7). May cause eye/skin/respiratory irritation. Prolonged and/or repeated skin contact may cause allergic reaction/sensitization. May cause delayed lung damage (silicosis). May be harmful if swallowed **WARNING: This product contains a chemical known to the State of California to cause cancer. Deliberate concentration of vapors of 'A' &/or 'B' Components for purposes of inhalation is harmful and can be fatal**

Construction

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 person to fresh air. Ingestion: Do not induce vomiting. Dilute with water. Contact a physician. In all cases, contact a physician immediately if symptoms persist.
Handling and Storage	Avoid direct contact with eyes and skin. Wear chemical resistant gloves/goggles/clothing. Avoid breathing vapors. Use with adequate general and local ventilation. In absence of adequate ventilation, use properly fitted NIOSH approved respirator. Wash thoroughly after handling product. Store in a cool, dry, well ventilated area. Keep containers tightly closed.
Clean Up	Uncured material can be removed with approved solvent. Follow solvent manufacturer's instructions for use and warnings. Cured material (when Component 'A' combined with Component 'B' and Component 'C') can only be removed mechanically. In case of spill, ventilate area and contain spill. Collect with absorbent material (Component 'A' and Component 'B'). Shovel Component 'C' into approved container. Dispose of in accordance with current applicable local, state and federal regulations.

KEEP CONTAINER TIGHTLY CLOSED • KEEP OUT OF REACH OF CHILDREN • NOT FOR INTERNAL CONSUMPTION • FOR PROFESSIONAL USE ONLY

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1-800-933-SIKA NATIONWIDE

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

