

Product Data Sheet  
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Sikafloor® 207

# Sikafloor® 207

## Epoxy Binder/Coating

**Description** A general service, two component, high solids, epoxy system for use as a coating or as a binder for pigmented slurry/broadcast system and applied as a pigmented epoxy sealer coat.

**Where to Use** Designed for economical body and/or sealer coat application in Sikafloor Industrial Flooring systems from 5 to 10 mils (0.13 - 0.25 mm) w.f.t. subjected to abrasion and/or chemical spills. A binder for slurry-type applications (60 to 120 mils).

**Advantages**

- High Solids / Low Odor
- Medium to High Build (i.e. as a coating or as a self-leveling slurry) in one application.
- Good chemical and abrasion resistance
- Wide range of colors with Sikafloor Epoxy Color Additive
- Tough, smooth, non-porous surface is easy to clean

### 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.

<b>Packaging</b>	Component A: 2 US gal. (7.6 L)	Component A: 5 US gal. (18.9 L)*	Component A: 55 US gal. (208.2 L)*
	Component B: 1 US gal. (3.8 L)	Component B: 5 US gal. (18.9 L)	Component B: 55 US gal. (208.2 L)
	Components A+B: 3 US gal. (11.4 L)	Components A+B: 15 US gal. (56.7 L)	Components A+B: 165 US gal. (624.6 L)
	(Ready to mix unit)	*(2 units needed)	*(2 units needed)

**Colors** Clear or field pigmented with Sikafloor Epoxy Color Additive. Sikafloor Epoxy Color Additive is available in 1-quart (1.0 L) size. Depending on the color chosen, 1 or 2 of color packs may be required per 3 gallon mix.

**Coverage**

**Smooth Finish Coating:**  
160 - 200 ft<sup>2</sup> / US gal (3.9 - 4.9 m<sup>2</sup> / L) at 8 - 10 mils (0.2 - 0.25 mm) wet film thickness (w.f.t.)

**Wear coat:**  
106 - 135 ft<sup>2</sup> / US gal (2.6 - 3.3 m<sup>2</sup> / L) at 12 - 15 mils (0.30 - 0.38 mm) wet film thickness (w.f.t.)

**Slurry Layer:**  
39 ft<sup>2</sup> / US gal.\* @ 60 mils.  
19.5ft<sup>2</sup> / US gal.\* @ 120 mils  
\* 1 Mixed US gal. of Sikafloor 207 plus 7 Lbs. of Sikadur 504 type filler.

<b>Pot Life</b>	<b>Material Temperature</b>	<b>Time</b>
	+50°F (10°C)	~ 50 minutes
	+68°F (20°C)	~ 25 minutes
	+86°F (30°C)	~ 15 minutes

**Waiting / Recoat Times** Before applying second coat Sikafloor 207 allow:

<b>Ambient &amp; Substrate Temperature</b>	<b>Minimum</b>	<b>Maximum</b>
+50°F (10°C)	24 hours	3 days
+68°F (20°C)	12 hours	2 days
+86°F (30°C)	6 hours	1 day

Before applying Sikafloor Epoxy or Polyurethane on Sikafloor 207 allow:

<b>Ambient &amp; Substrate Temperature</b>	<b>Minimum</b>	<b>Maximum</b>
+50°F (10°C)	24 hours	3 days
+68°F (20°C)	12 hours	2 days
+86°F (30°C)	6 hours	1 day

<b>Cure Times</b>	<b>Ambient &amp; Substrate Temperature</b>	<b>Foot traffic</b>	<b>Light traffic</b>	<b>Full cure</b>
	+50°F (10°C)	~ 24 hours	~ 6 days	~ 10 days
	+68°F (20°C)	~ 12 hours	~ 4 days	~ 7 days
	+86°F (30°C)	~ 6 hours	~ 2 days	~ 5 days

Properties Tested at 73°F (23°C) and 50 % R.H:

<b>Compressive Strength</b>	ASTM D695	10,400 psi (77.1 MPa)
<b>Tensile Strength</b>	ASTM D638	6,400 psi (44.1 MPa)
<b>Pull-off Strength</b>	ASTM D4541	> 400 psi (2.8 MPa)
<b>Shore D Hardness</b>	ASTM D2240	100% concrete failure
<b>Impact Resistance</b>	ASTM D2794	80 - 84
<b>Abrasion Resistance by Taber Abraser</b> (CS-17 wheel, 1000 cycles, 1000 gm load)	ASTM D4060	160 in-lbs. (18.1 N-m)
<b>VOC Content</b>	ASTM D2369	65 - 70 mg loss
<b>Slip Resistance</b>	ASTM D2047	≤ 50 g/L
<b>Shelf Life</b>	2 years in unopened container, Store dry between 40° - 90°F (4° - 32°C)	
<b>Chemical Resistance</b>	Please consult Sikafloor Technical Services.	

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## 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-free and contaminant-free, open textured surface by shot blasting or equivalent mechanical means (CSP-3 to CSP-4 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 "shotblast" pattern may show through the last coat, known as "tracking". The compressive strength of the concrete substrate should be at least 3,500 psi (24 MPa) at 28 days and at least 215 psi (1.5 MPa) in tension at the time of application. For other substrates, please contact Sikafloor Technical Services.

## Priming

Priming for concrete substrate is required. Prime with either **Sikafloor 107, Sikafloor 160, Sikafloor 161 or Sikafloor 1610**. Allow the primer to cure (varies with temperature and humidity) until tack free before applying subsequent coats. Ensure that the primer is pore-free, pinhole-free and provides uniform and complete coverage over the entire substrate.

**Please refer to the individual most current and respective Product Data Sheet for specific and detailed information.**

## Mixing

**Mix Ratio** - 2 : 1 by volume.

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

### Field Pigmented:

Premix each component separately. If color is desired, the appropriate Sikafloor Epoxy Color Additive is added to Component A at a rate of 1 quart per 3 mixed gallons (i.e. Components A+B) for all colors except bright colors like White, Safety Yellow or Tile Red which require 2 quarts per 3 mixed gallons (i.e. Components A+B). Mix Component A and Sikafloor Epoxy Color Additive for 2 minutes or until a uniform color is achieved with a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume. Empty Component B (Hardener) in the correct mix ratio to Component A (Resin) and mix for additional 2 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 the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

### Self-leveling Slurry:

Premix each component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin) and add the appropriate Sikafloor Epoxy Color Additive. Mix the combined components for at least 1 minute using a low speed drill (300 - 450 rpm) and Exomixer or Jiffy type paddle suited to the volume of the mixing container to minimize entrapped air. Add Sikadur 504 type filler and mix for additional 2 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 the coating. During the mixing operation, scrape down the sides and bottom of the container with a flat or straight edge trowel at least once to ensure complete mixing.

**Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.**

## Application

### Sealer/Intermediate:

Sikafloor 207 is applied with a 40 mils (1 mm) notched squeegee over a smooth surface and a flat squeegee over a rough or broadcast quartz surface. Back rolling is typically done with an 18 inch (454 mm) wide, 3/8-inch (10 mm) short nap, solvent-resistant roller cover. Back roll the Sikafloor 207 only to level the squeegee applied material. Over-rolling and late back rolling may cause bubbling and leave roller marks. Product has a limited Pot Life, see Typical Data. Do not apply by dipping roller into mixing container. Pour a bead of product in the form of a ribbon on the surface to be coated, then spread with squeegee and back roll.

**Note:** Sika does not recommend using Sikafloor 207 as a receiver coat (clear/pigmented) and top coat for decorative quartz and flake applications, due to possible yellowing.

### Self-Leveling Slurry:

Pour a bead of product to the surface to be coated, then spread with a notched squeegee or pin rake to the desired thickness. Roll immediately (within max. 10 minutes of application) in two directions with a spiked roller to ensure even thickness and the removal of entrapped air. To obtain a higher aesthetic finish, spike roll in two directions at a 90 degree angle by passing only once in each direction. The product has a limited Pot Life, see Typical Data.

**Limitations****Notes on Limitations:**

Prior to application, measure and confirm Substrate Moisture Content, Ambient Relative Humidity, Ambient and Surface Temperature and Dew Point. During installation, confirm and record above values at least once every 3 hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc.).

**Substrate Moisture Content:** Moisture content of concrete substrate must be  $\leq 4\%$  by mass (pbw – part by weight) as measured with a Tramex® CME/CMExpert type concrete moisture meter on mechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). Do not apply to concrete substrate with moisture levels  $> 4\%$  mass (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate is  $> 4\%$  by mass (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor 1610 or Sikafloor 81 EpoCem.

When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be  $\leq 85\%$ . If values are  $> 85\%$  according to ASTM F2170 use Sikafloor 1610 or Sikafloor 81 EpoCem.

ASTM F2170 testing is **not** a substitute for measuring substrate moisture content with a Tramex® CME/CMExpert type concrete moisture meter as described above.

**Material Temperature:** Precondition material for at least 24 hours between 65° to 75°F (18° to 24°C)

**Ambient Temperature:** Minimum/Maximum 50°/85°F (10°/30°C)

**Substrate Temperature:** Minimum/Maximum 50°/85°F (10°/30°C). Substrate temperature must be at least 5°F (3°C) above measured Dew Point.

Mixing and Application attempted at Material, Ambient and/or Substrate Temperature conditions less than 65°F (18°C) will result in a decrease in product workability and slower cure rates.

**Relative Ambient Humidity:** Maximum ambient humidity 85% (during application and curing)

**Dew Point:** Beware of condensation!

The substrate must be at least 5°F (3°C) above the Dew Point to reduce the risk of condensation, which may lead to adhesion failure or “blushing” on the floor finish. Be aware that the substrate temperature may be lower than the ambient temperature.

**Mixing:** Do not hand mix Sikafloor materials. Mechanically mix only.

Do not thin this product. Addition of thinners (e.g. water, solvent, etc.) will slow cure and reduce ultimate properties of this product. Use of thinners will void any applicable Sika warranty.

Improper mixing procedure or incorrect mixing ratio may result in moisture sensitivity, whitening, slow cure, soft spots, and other defects.

**Application:** Apply the coating to the prepared substrate which should be pore-free and pinhole-free. If necessary, apply an additional coat of a suitable material to ensure the substrate is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate.

- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapor drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapor drive.
- Freshly applied material should be protected from dampness, condensation and water for at least 72 hrs.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. Use of clear UV resistant top coat may not prevent discoloration of underlying coatings.
- Do not apply Sikafloor to concrete substrate containing aggregates susceptible to ASR (Alkali Silica Reaction) due to risk of natural alkali redistribution below the Sikafloor product after application. If concrete substrate has or is suspected to have ASR (Alkali Silica Reaction) present, do not proceed. Consult with design professional prior to use.
- Any aggregate used with Sikafloor systems must be non-reactive and oven-dried.
- This product is not designed for negative side waterproofing.
- Typically not recommended for exterior slabs on grade where freeze/thaw conditions may exist.
- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing, whitening, debonding, etc.).
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.
- For professional use only by experienced applicators.

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<b>Caution</b>	<p><b>COMPONENT A: WARNING - IRRITANT, SENSITIZER:</b> 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. <b>Strictly follow all use, handling and storage instructions.</b></p> <p><b>COMPONENT B: WARNING: CORROSIVE, SENSITIZER, IRRITANT.</b> Contains amines (mixture). 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. <b>Strictly follow all handling, use and storage instructions.</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>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.</p>
<b>Clean Up</b>	<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. Cured material can only be removed mechanically.</p>

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

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