BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-207

Epoxy Binder/Coating

PRODUCT 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 can be applied as a pigmented epoxy sealer coat.

USES

Sikafloor®-207 may only be used by experienced professionals.

Designed for economical body and/or sealer coat application in Sikafloor Industrial Flooring systems from 6 to 15 mils (0.15–0.38 mm) w.f.t. subjected to abrasion and/or spills. A binder for slurry-type applications (60–125 mils).

CHARACTERISTICS / ADVANTAGES

- High solids / low odor
- Medium to high build (i.e. as a coating or as a self-leveling slurry) in one application.
- Good abrasion and mild chemical resistance
- Wide range of colors with Sikafloor® Epoxy Color Additive-N
- Tough, smooth, non-porous surface is easy to clean

PRODUCT INFORMATION

Packaging	Component A: 5 US gal. (18.9 L) * Component B: 5 US gal. (18.9 L) Components A+B: 15 US gal. (56.7 L) *(2 units needed)
Appearance / Color	Clear or field pigmented with Sikafloor® Epoxy Color Additive-N. Sikafloor® Epoxy Color Additive-N is available in 1-quart (1.0 L) size. Depending on the color chosen, 1 or 2 color packs may be required per 3 gallon mix.
Shelf Life	2 years in unopened container
Storage Conditions	Store dry between 40–90 °F (4–32 °C)
Volatile organic compound (VOC) content	73 g/L (A+B Combined)

TECHNICAL INFORMATION

Shore D Hardness	82	ASTM D-2240 at 73°F (23°C) and 50 % R.H
Abrasion Resistance	70 mg loss	Abrasion Resistance by Taber Abraser, ASTM D4060 CS-17 wheel, 1000 cycles, 1000 gm load
Compressive Strength	10,400 psi (77.1 MPa)	ASTM D-695 at 73°F (23°C) and 50 % R.H
Tensile Strength	6,400 psi (44.1 MPa)	ASTM D-638 at 73°F (23°C) and 50 % R.H
Tensile Adhesion Strength	> 400 psi (2.8 MPa) 100 % concrete failure	ASTM D-4541 at 73°F (23°C) and 50 % R.H
Chemical Resistance	Please consult Sikafloor® Technical Services.	

APPLICATION INFORMATION

Mixing Ratio

2:1

Coverage

Smooth Finish Coating:
160–200 ft² / US gal (3.9–4.9 m2 / L) at 6–10 mils (0.15–0.25 mm) wet film thickness (w.f.t.)

Wear coat:
106 - 135 ft² / US gal (2.6–4.9 m² / L) at 12–16 mils (0.30–0.4 mm) wet film thickness (w.f.t.)

Slurry Layer:
39 ft² / US gal.* at 60 mils.
19.5ft² / US gal.* at 120 mils
* 3 Mixed US gal. of Sikafloor 207 plus 21 Lbs. of Sikadur® 504 type filler.

Pot Life

Material Temperature	Time
50 °F (10 °C)	~ 40 minutes
68 °F (20 °C)	~ 25 minutes
86 °F (30 °C)	~ 15 minutes

Cure Time

Ambient & Substrate Temperature	Foot traffic	Light traffic	Full cure
50 °F (10 °C)	~ 24 hours	~ 3 days	~ 10 days
68 °F (20 °C)	~ 12 hours	~ 2 days	~ 7 days
86 °F (30 °C)	~ 8 hours	~ 1 day	~ 4 days

Waiting / Recoat Times

Before applying second coat Sikafloor® Epoxy or Polyurethane on Sikafloor®-207 allow:

Ambient & Substrate Temperature	Minimum	Maximum
50 °F (10 °C)	24 hours	36 hours
68 °F (20 °C)	12 hours	24 hours
86 °F (30 °C)	6 hours	18 hours

APPLICATION INSTRUCTIONS

SURFACE PREPARATION

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All surface projections, rough spots, etc. should be removed 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® 160, Sikafloor® 161, Sikafloor® 1610, Sikafloor® 165 FS and Sikafloor® 2570. 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.
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-N 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-N 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) at the correct mix ratio to Component A (Resin) and mix for additional 2 minutes. Be careful not to introduce any air 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) at the correct mix ratio into Component A (Resin). Mix the combined components for at least 2 minutes 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 an additional 2 minutes. Be careful not to introduce any air 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 at 6–16 mils using a 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) or a top coat for decorative quartz and flake applications, due to yellowing/ambering, even through full broadcast.

Self-Leveling Slurry:
Pour a bead of product on to the surface to be coated, then spread with a notched squeegee or pin rake between 60–120 mils. Roll immediately (within max. 10 minutes of application) in two directions with a spiked roller and the removal of entrapped air.

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 ≤ 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 22NA or 24NA PurCem®. When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be ≤ 85 %. If values are > 85 % according to ASTM F2170 use Sikafloor 1610 or Sikafloor 22NA PurCem. ASTM F2170 testing is not a substitute for measuring substrate moisture content. Use 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 must adhere to Material, Ambient and Substrate temperatures listed above or a decrease in product workability and slower cure rates will occur.

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.

- 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.

- Use of unvented heaters and certain heat sources may result in defects (e.g. blushing)

BASIS OF PRODUCT 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.

OTHER RESTRICTIONS

See Legal Disclaimer.

ENVIRONMENTAL, HEALTH AND SAFETY

For further information and advice regarding transportation, handling, storage and disposal of chemical products, user should refer to the actual Safety Data Sheets containing physical, environmental, toxicological and other safety related data. User must read the current actual Safety Data Sheets before using any products. In case of an emergency, call CHEMTREC at 1-800-424-9300, International 703-527-3887.

LEGAL DISCLAIMER

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

Prior to each use of any product of Sika Corporation, its subsidiaries or affiliates ("SIKA"), the user must always read and follow the warnings and instructions on the product's most current product label, Product Data Sheet and Safety Data Sheet which are available at usa.sika.com or by calling SIKA's Technical Service Department at 1-800-933-7452. Nothing contained in any SIKA literature or materials relieves the user of the obligation to read and follow the warnings and instructions for each SIKA product as set forth in the current product label, Product Data Sheet and Safety Data Sheet prior to use of the SIKA product.

SIKA warrants this product for one year from date of installation to be free from manufacturing defects and to meet the technical properties on the current Product Data Sheet if used as directed within the product's shelf life. User determines suitability of product for intended use and assumes all risks. User's and/or buyer's sole remedy shall be limited to the purchase price or replacement of this product exclusive of any labor costs. **NO OTHER WARRANTIES EXPRESS OR IMPLIED SHALL APPLY INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. SIKA SHALL NOT BE LIABLE UNDER ANY LEGAL THEORY FOR SPECIAL OR CONSEQUENTIAL DAMAGES. SIKA SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS.**

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