



PRODUCT DATA SHEET

Sikafloor®-217

VERSATILE UV RESISTANT EPOXY RESIN USED AS A HIGH BUILD COATING AND FOR DECORATIVE QUARTZ AND FLAKE APPLICATIONS

PRODUCT DESCRIPTION

Sikafloor®-217 is a low odor, high solids, epoxy resin primarily designed for high build coatings, decorative quartz and decorative flake applications. Sikafloor®-217 can be used as clear or pigmented coat using Sikafloor® Epoxy Pigment Packs. Sikafloor®-217 is an ideal top coat with an aliphatic urethane when increased chemical and abrasion resistance are required.

USES

Typical applications may include:

- Auto dealerships
- Institutions
- Grocery, department and retail stores
- Pharmaceutical laboratories, production rooms and offices
- Museum and galleries
- Animal shelter and veterinary clinics
- Laboratories, bathroom/shower areas

CHARACTERISTICS / ADVANTAGES

- Good chemical resistance
- High solids as supplied
- Attractive, high gloss, reflective coating
- Tough, smooth, non-porous surface is easy to clean
- Durable, impermeable and seamless
- Easily applied with brush, roller or squeegee
- Good abrasion resistance
- Optional integral cove base and curbs may be installed without seams and joints
- Excellent impact resistance
- Unlimited design capabilities available in various textures, patterns and colors

PRODUCT INFORMATION

Packaging	Component A: 3.00 US gal. (11.3 L) Component B: 1.50 US gal. (5.68 L) Component A: 5.00 US gal. (18.9 L)* Component B: 5.00 US gal. (18.9 L) Components A+B: 15 US gal. (56.7 L) *(2 units needed) Mix ratio: 2:1 by volume	Component A: 50 US gal. (189 L)* Component B: 50 US gal. (189 L) Components A+B: 150 US gal.(567L)
Appearance / Color	Clear or field pigmented with Sikafloor® Epoxy Pigment Packs	
Shelf Life	2 years in original unopened container under proper storage conditions	
Storage Conditions	Store dry between 40° - 90°F (4° - 32°C)	

TECHNICAL INFORMATION

Shore D Hardness	80 - 85	ASTM D2240 at 73 °F (23 °C) and 50% R.H
Abrasion Resistance	CS-17/1000 cycles/1000g - 58 mg loss	ASTM D4060 at 73 °F (23 °C) and 50% R.H
Compressive Strength	Resin 8,702 psi (60 MPa) (28 days)	ASTM C579 at 73 °F (23 °C) and 50% R.H
Flexural Strength	9,284 psi (64 MPa)	ASTM D790 at 73 °F (23 °C) and 50% R.H
Tensile Strength	5,078 psi (35 MPa)	ASTM D638 at 73 °F (23 °C) and 50% R.H
Elongation at Break	15%	ASTM D638 at 73 °F (23 °C) and 50% R.H
Tensile Adhesion Strength	>400 psi (2.7 MPa) - 100% substrate failure	ASTM D7234 at 73 °F (23 °C) and 50% R.H
Chemical Resistance	Please consult Sikafloor Technical Services	
Permeability to Water Vapor	0.41 g/hour/sq-meter	ASTM E96 at 73 °F (23 °C) and 50% R.H
Water Absorption	0.13% (2 hours boiling)	ASTM C413 at 73 °F (23 °C) and 50% R.H

APPLICATION INFORMATION

Coverage 100 - 133 ft² / US gal (2.6 - 3.3 m² / L) at 12 - 16 mils (0.30 – 0.40 mm) wet film thickness (w.f.t.)

Pot Life	Material Temperature	Time
	+50°F (10°C)	~ 50 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)	~8 hours	~2 days	~7 days
	+86°F (30°C)	~6 hours	~36 hours	~4 days

Waiting / Recoat Times	Ambient & Substrate Temperature	Minimum	Maximum
	+50°F (10°C)	~24 hours	~36 hours
	+68°F (20°C)	~8 hours	~24 hours
	+86°F (30°C)	~6 hours	~24 hours

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.

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) but < 6% as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor®-1620. If moisture content is ≥ 6%, use Sikafloor® 22 NA or 24 NA 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% but < 96% according to ASTM F2170, use Sikafloor®-1620. If values are ≥ 96%, use Sikafloor® 22 NA or 24 NA PurCem®.

Material Temperature: Precondition material for at least 24 hours between 65 °F and 75 °F (18–24 °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.

Ambient Relative 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 primer to the prepared substrate using a squeegee and back roll to provide uniform coverage. Ensure that the coating is pore-free and pinhole-free and provides uniform and complete coverage over the entire substrate. If necessary, apply an additional coat to ensure the coating 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.
- 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.
- This product is not designed for negative side waterproofing.
- 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.

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.

APPLICATION INSTRUCTIONS

SUBSTRATE PREPARATION

Surface must be clean, sound, dry and primed with appropriate Sikafloor primer. Remove dust, laitance, grease, curing compounds, bond inhibiting impregnations, waxes and any other contaminants. All projections, rough spots, etc. should be removed to achieve a level surface prior to the application. Apply within primer's recoat window.

MIXING

Mixing Ratio - 2 : 1 by volume.

Each component must be pre-mixed separately to ensure product uniformity.

Clear Resin:

Premix each component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). Mix the combined components for at least 3 minutes and until uniform 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. 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.

Field Pigmented:

Premix each component separately. If color is desired, the appropriate Sikafloor Epoxy Pigment Pack is added to Component A at a rate of 1 quart (1L) per 2 gallons of Component A. Mix Component A and Sikafloor Epoxy Pigment Pack for 2 minutes and 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 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.

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

Sikafloor®-217 is applied with a 12 to 40 mil (0.30 - 1 mm) notched squeegee over a smooth surface and a flat squeegee over a rough decorative quartz or decorative flake surface. Back rolling is typically done with an 18 inch (455 mm) wide 3/8-inch (10 mm) nap, solvent-resistant roller cover. Back-roll the Sikafloor®-217 only to level the squeegee applied material. Over-rolling and late back rolling may cause bubbling and leave roller marks.

- 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.

- Do not apply in excess of 40 mils in one coat.
- 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.

OTHER RESTRICTIONS

See Legal Disclaimer.

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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Sika Corporation

201 Polito Avenue
Lyndhurst, NJ 07071
Phone: +1-800-933-7452
Fax: +1-201-933-6225
usa.sika.com



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