

PRODUCT DATA SHEET

Sikafloor®-219 UTE

UNIVERSAL TINTABLE EPOXY FLOOR COATING (WATER CLEAR OR PIGMENTED)

PRODUCT DESCRIPTION

Sikafloor®-219 UTE is a multi-functional, two component, high solids, low VOC, low odor, water clear epoxy resin that can be applied with or without Epoxy Pigment Packs or metallic pigments to create a variety of durable, decorative coating finishes.

USES

Sikafloor®-219 UTE may only be used by experienced professionals.

Sikafloor®-219 UTE is a universal epoxy resin system applied water-clear or pigmented, used as a concrete primer, broadcast surfacing and trowel mortar binder, and final top coat.

CHARACTERISTICS / ADVANTAGES

- Excellent protection for new or old concrete
- Good mechanical resistance
- Glossy aesthetic finish
- Durable, impermeable and seamless
- Easily cleaned and maintained
- Low-VOC content and low odor

APPROVALS / STANDARDS

Meets the requirements of CFIA and USDA for use in food plants.

PRODUCT INFORMATION

CSI / CSC MasterFormat®

09 67 00 | FLUID- APPLIED FLOORING

Packaging

Component A: 7.57 L (2 US gal.)
 Component B: 3.78 L (1 US gal.)
Component A+B: 11.35 L (3 US gal.)
 Component A: 18.9 L (5 US gal.)
 Component B: 18.9 L (5 US gal.)
Component 2A+B: 56.7 L (15 US gal.)
 Component A: 189.2 L (50 US gal.)
 Component B: 189.2 L (50 US gal.)
Component 2A+B: 567.8 L (150 US gal.)

Shelf Life

2 years in original unopened packaging. Condition product at temperatures between 65°F and 86°F (18°C and 30°C) before using.

Storage Conditions

Store dry between 41°F and 89°F (5°C and 32°C)

Appearance / Color	Water clear / Pigmented refer to the Sikafloor Standard Color Guide	
Viscosity	~500 cps (A+B Mixed /Clear)	
Volatile organic compound (VOC) content	~28 g/L	

TECHNICAL INFORMATION

Shore D Hardness	~80	(ASTM D2240)
Abrasion Resistance	~0.034 g (Smooth Coating)	(ASTM D4060) CS-17 /1000 g (2.2 lbs.)/1000 cycles
Impact Strength	> 189 in.lb.	(ASTM D2794)
Tensile Strength	~6381 psi (~44 MPa)	(ASTM D638)
Elongation at Break	~7.3%	(ASTM D638)
Tensile Adhesion Strength	363 psi (>2.5 MPa) (substrate failure)	(ASTM D7234)
Coefficient of Friction	~0.37 Wet (smooth high gloss clear)	(ANSI 326.3) BOT 3000e
Service Temperature	Minimum ~32°F (~0°C) Maximum ~122°F (~50°C)	
Water Absorption	~0.58% (24 hours)	(ASTM D570)

APPLICATION INFORMATION

Mixing Ratio	Clear Pigmented	A:B = 2:1 by volume add 1 quart Epoxy Pigment Pack for every 2 US gal. of Part A resin
Coverage	Smooth Coating: (23 mil total thickness) Prime coat: (8 mil) 200 ft ² /US gal. (5 m ² /L) Wear coat: (15 mil) 106 ft ² /US gal. (2.6 m ² /L) Note: Actual coverage rates and material consumption will depend upon porosity and profile of substrates. Test sections are recommended to establish correct coverage.	
Product Temperature	Condition product at temperatures between 65°F and 86°F (18°C and 30°C) before using.	
Ambient Air Temperature	Minimum: 50°F (10°C) Maximum: 85°F (30°C) 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 Air Humidity	Maximum 85 % (during application and curing).	
Dew Point	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.	
Substrate Temperature	Minimum: 50°F (10°C) Maximum: 85°F (30°C) Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapour drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapour drive.	

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 ICRI / CSP 3 - 4). If moisture content of concrete substrate exceeds 4 % by mass (pbw – part by weight) as measured with Tramex® CME / CMExpert type concrete moisture meter, use Sikafloor®-1620

Pot Life	Material Temperature	Time
	73°F (23°C)	~26 minutes

Cure Time	Ambient & Substrate Temperature	Foot Traffic	Light Traffic	Normal Traffic
	50°F (10°C)	~48 hours	~4 days	~7 days
	73°F (23°C)	~24 hours	~2 days	~5 days
	86°F (30°C)	~16 hours	~36 hours	~4 days

Curing times will vary according to ambient air and substrate temperatures and relative humidity.

Freshly applied material should be protected from dampness, condensation and water for at least 24 hours.

Mechanical, chemical and physical properties will be fully achieved at full cure.

Waiting / Recoat Times	Ambient & Substrate Temperature	Minimum	Maximum
	50°F (10°C)	~48 hours	~96 hours
	73°F (23°C)	~24 hours	~48 hours
	86°F (30°C)	~16 hours	~36 hours

Note: If the Waiting/ Recoat time has passed the previous coat must be lightly sanded, to remove all gloss; vacuum cleaning and solvent wiping will be necessary to remove all traces of dust. The surface should be a uniform dullness, with no gloss present after clean-up and before applying the next coat.

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 three (3) hours, or more frequently whenever conditions change (e.g. Ambient Temperature rise/fall, Relative Humidity increase/decrease, etc).
- 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.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions
- Do not apply to substrates exposed to extreme thermal shock.
- Direct-fired gas or kerosene heaters produce by-products that can have adverse effects on the curing primer. To avoid this occurrence, heaters must be exhausted to the exterior of the building to avoid defects such as amine blush, whitening, loss of adhesion or other surface deficiencies.
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.
- Published Dynamic Coefficient of Friction (DCOF) wet and dry test results are approximate values based on

laboratory test samples produced in a controlled environment following the application instructions published on the product data sheet. Resin flooring products are hand-applied finishes subject to minor variations in surface texture due to influences partly beyond Sika's control. Substrate profile, environmental conditions, variable regional aggregate size, shape and gradation, aggregate distribution, uniformity of applied resin mil thickness, and application technique can all affect the final DCOF test results achieved. Adequate provision should be made by the client throughout the selection and installation process to ensure the finished surface texture meets the end user's traction requirements.

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

The concrete surface must be clean and sound. Remove any dust, laitance, grease, oil, dirt, curing agents, impregnations, wax, foreign matter, coatings and detritus from the surface by appropriate mechanical means, in order to achieve a profile equivalent to ICRI / CSP 3 - 4 for floors and ICRI / CSP 1 - 3 for walls. The compressive strength of the concrete substrate should be at least 3625 psi (25 MPa) at 28 days and at least 218 psi (1.5 MPa) in tension at the time of application of Sikafloor®-219 UTE.

MIXING

Mixing Ratio - A:B = 2:1 by volume

For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product uniformity. Do not hand mix Sikafloor® materials. Mechanically mix only. Mix only that quantity which can be used within its pot life at actual field temperature.

Clear Resin: Premix each Component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). Mix the combined components at low speed (300-450 rpm) for at least three (3) minutes using a drill fitted with an Exomixer® or Jiffy type paddle suited to the volume of the mixing container to minimize air entrapment. 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.

Color Pod Pigmented: Premix each component separately, including the Epoxy Pigment Pack to ensure product uniformity. For all colors, add one (1) quart Epoxy Pigment Pack for every 2 US gal. of Component A resin and mix at low speed (300 - 450 rpm) for three (3) minutes until a uniform colour is achieved using a drill fitted with an Exomixer® or Jiffy type paddle. Be careful not to introduce any air bubbles during the mixing process. Empty Component B (Hardener) in the correct mix ratio to Component A (Resin) and mix for additional three (3) 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.

NOTE: When using brighter colors, additional coats may be required. Using more color additive than recommended will result in extended cure times and reduced chemical and abrasion resistance.

APPLICATION

Prime Coat: Apply Sikafloor®-219 UTE as a prime coat onto the substrate using a brush, roller or squeegee, at a uniform coverage without puddling.

Wear Coat: Once the prime coat is tack-free, apply the wear coat using a squeegee or roller and backroll to achieve even coverage.

Note: If the Waiting/ Recoat time has passed (refer to Technical Data section) the previous coat must be lightly sanded, to remove all gloss; vacuum cleaning and solvent wiping will be necessary to remove all traces of dust. The surface should be a uniform dullness, with no gloss present after clean-up and before applying the next coat.

CLEANING OF TOOLS

Clean all tools and equipment with xylene. Once hardened, product can only be removed mechanically.

MAINTENANCE

Please refer to Sikafloor® General Maintenance for New Floor Systems.

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.

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