BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-264

VERSATILE PIGMENTED EPOXY RESIN FOR HIGH PERFORMANCE FLOOR FINISHES

PRODUCT DESCRIPTION

Sikafloor®-264 is a pigmented, two part low viscosity, self-priming (see priming section), epoxy coating / binder used for smooth and textured coatings and/or broadcast overlayments.

USES

Sikafloor®-264 may only be used by experienced professionals.

Roller coat and self-leveling slurry for concrete surfaces, with medium to heavy duty wear (e.g. storage, hallways, corridors and assembly halls, maintenance workshops, garages and loading ramps), or as a seal coat for broadcast systems. When used as a primer, Sikafloor®-264 can be considered when ≤ 4 % moisture content by mass (pbw – part by weight) is measured on the concrete substrate with a Tramex® CME/CMExpert type concrete moisture meter.

CHARACTERISTICS / ADVANTAGES

- Good chemical and abrasion resistance
- Easily applied with brush, roller and squeegee
- Glossy aesthetic finish
- Slip resistant surface possible
- Durable, impermeable and seamless
- Solvent-free, low odor
- Low mixed viscosity

PRODUCT INFORMATION

Packaging	Component A	3.0 US gal. (11.4 L) fill in 5 gallon pail
	Component B	1.5 US gal. (5.7 L) fill in 2 gallon pail
	Components A+B	4.5 US gal. (17 L)
	Component A	(2) 50 US gal. (189 L)
	Component B	50 US gal. (189 L)
	Components A+B	150 US gal. (568 L)
Appearance / Color	Sikafloor standard epoxy colors. (18 standard colors). Refer to Standard Color Selection Guide. Custom colors available. Refer to current price list for availability.	
Shelf Life	24 months in unopened container	

Storage Conditions	Store dry between 40 °F (4 °C) and 90 °F (32 °C).
Volatile organic compound (VOC) content	43 g/L

TECHNICAL INFORMATION

Shore D Hardness	82	ASTM D2240 at 73°F (23°C) and 50% R.H
Abrasion Resistance	90 mg loss (CS-17/1000 rot/1000 g)	ASTM D4060 at 73°F (23°C) and 50% R.H
Compressive Strength	7,426 psi (51.2 Mpa)	ASTM C579 at 73°F (23°C) and 50% R.H
Flexural Strength	8,558 psi (59 Mpa)	ASTM D790 at 73°F (23°C) and 50% R.H
Tensile Strength	4,902 psi (33.8 Mpa)	ASTM D638 at 73°F (23°C) and 50% R.H
Elongation at Break	8.3 %	ASTM D638 at 73°F (23°C) and 50% R.H
Tensile Adhesion Strength	>400psi (2.7 MPa) (100 % concrete failure)	ASTM D4541 at 73°F (23°C) and 50% R.H
Impact Strength	0.26 ft/lb (0.35 J)	ASTM 2794 at 73°F (23°C) and 50% R.H
Chemical Resistance	Please consult Sikafloor Technical Services	
Water Absorption	0.05 % 2 hours boiling	ASTM C413 at 73°F (23°C) and 50% R.H
Permeability to Water Vapor	0.33 g/hour/sq-meter	ASTM E96 at 73°F (23°C) and 50% R.H
Gloss level	90 (at 60 degrees)	ASTM D523 at 73°F (23°C) and 50% R.H
Coefficient of Friction	0.6	ANSI 326.3 at 73°F (23°C) and 50% R.H

APPLICATION INFORMATION

Mixing Ratio

2 Parts A to 1 Part B by volume

Coverage

Smooth Finish Coating:	Prime coat: 160–266 ft² / US gal (3.9–5.4 m² / L) at 6 – 10 mils (0.15–0.25 mm) wet film thickness (w.f.t.) Wear coat: 105–135 ft² / US gal (2.6–3.3 m² / L) at 12 - 15 mils (0.30–0.38 mm) wet film thickness (w.f.t.)
Slurry Layer:	40 ft² / US gal.* @ 60 mils. 30 ft² / US gal.* @ 80 mils. 20 ft² / US gal.* @ 120 mils
	* 1 Mixed (A+B) US gal. of Sikafloor® 264 plus 11.1 Lbs. of Sikadur® 504 type filler. For a full ready to mix unit (4.5 Mixed US gal.) of Sikafloor® 264 add 50 Lbs. of Sikadur® 504 type filler. The use of a different filler other than Sikadur® 504, may change the theoretical coverage rates as displayed above

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)	~ 12 hours	~ 2 days	~ 7 days
86 °F (30 °C)	~ 8 hours	~ 36 hours	~ 4 days

Waiting / Recoat Times

Before applying second coat of Sikafloor®-264 on Sikafloor®-264 allow:

Ambient & Substrate Temperature	Minimum	Maximum
50 °F (10 °C)	24 hours	72 hours
68 °F (20 °C)	8 hours	48 hours
86 °F (30 °C)	6 hours	24 hours

Before applying Sikafloor Epoxy or Polyurethane on Sikafloor®-264 allow:

Ambient & Substrate Temperature	Minimum	Maximum
50 °F (10 °C)	24 hours	3 days
68 °F (20 °C)	8 hours	2 days
86 °F (30 °C)	6 hours	1 day

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

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 PurCem® 22NA or 24NA. 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 SikafloorPurCem® 22NA or 24NA. 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 °F to 75°F (18 °C 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.

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: If used as a primer apply material to the prepared substrate using a squeegee and back roll to provide uniform coverage. Ensure that the substrate 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 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, 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

SURFACE PREPARATION

Concrete surfaces must be clean and sound. Remove all dust, dirt, existing paint films, efflorescence, exudates, laitance, form oils, hydraulic or fuel oils, brake fluid, grease, fungus, mildew, biological residues or any other contaminants which may prohibit a good bond.

Prepare the surface by any appropriate mechanical means, in order to achieve a profile equivalent to ICRI - CSP 3-6. The compressive strength of the concrete substrate should be at least 3,625 psi (25 MPa) at 28 days and a minimum of 218 psi (1.5 MPa) in tension at the time of application.

Repairs to cementitious substrates, filling of blowholes, leveling of irregularities, etc. should be carried out using an appropriate Sika profiling mortar. Contact Sika Technical Service for a recommendation.

Primer or Smooth Finish Coating

Priming for concrete substrate is required. Prime with either Sikafloor-161, Sikafloor-1610, Sikafloor- 165 FS or Sikafloor-2570 WB. 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.

Sikafloor 264 may be used as a primer on concrete substrates for Sikafloor Coating Systems subjected to light traffic.Please refer to the most current and respective Product Data Sheet for further information.

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MIXING

Mixing Ratio - 2 : 1 by volume.
Each component must be pre-mixed separately to ensure product uniformity.

Primer and Wear Coat:

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 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 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:

Note: If a small mix unit is needed, mix the following quantities: 1 Mixed (A+B) US gal. of Sikafloor 264 plus 11.1 Lbs. of Sikadur 504 type filler. This mix would yield approximately 1.5 gallons of slurry mix.

Premix each component separately. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin). 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 while mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the slurry. 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

Primer

Apply primer by squeegee at the rate of 160–266 ft² / US gal (3.4–5.4 m² / L) at 6–10 mils (0.15–0.25 mm) wet film thickness (w.f.t.) and back roll within 15 minutes. Coverage will vary depending on the porosity of the prepared floor. 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. Ensure that the coating is pore-free and pinholefree and provides uniform and complete coverage over the entire concrete 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 concrete substrate.

Wear and Sealer Coat

Sikafloor®-264 is applied with a 15–20 mil (0.37–0.5 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 (455 mm) wide 3/8 inch (10 mm) nap, solvent-resistant roller cover. Back roll the Sikafloor®-264 only to level the squeegee applied material. Over-rolling and late back rolling may cause bubbling and leave roller marks.

Smooth Finish Self-Leveling Slurry

Pour a bead of product on the surface to be coated, then spread with a notched squeegee or pin rake to the desired thickness (60–120 mils). 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.

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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