

Sikafloor® 264

Versatile Pigmented Epoxy Resin for High Performance Floor Finishes

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 overlayers.

Where to Use 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 $\leq 4\%$ moisture content by mass (pbw – part by weight) is measured on the concrete substrate with a TrameX® CME/CMExpert type concrete moisture meter.

- 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

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.

Packaging	Component A: 3.0 US gal. (11.4 L) Component B: 1.5 US gal. (5.7 L) Components A+B: 4.5 US gal. (17 L) (Ready to mix unit) Mix ratio 2:1	Component A: 50 US gal. (189 L) (2 units needed) Component B: 50 US gal. (189 L) Components A+B: 150 US gal. (568 L)
Color	Sikafloor standard epoxy colors. (18 standard colors). Refer to Standard Color Selection Guide. Custom colors available. Refer to current price list for availability.	
Coverage	<p>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.)</p> <p>Slurry Layer: 40 ft² / US gal.* @ 60 mils. 30 ft² / US gal.* @ 80 mils. 20 ft² / US gal.* @ 120 mils</p> <p>* 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.</p>	
Pot Life	Material Temperature	Time
	+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 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



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Cure Times	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

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

Solid Content	~ 100% (by volume) / ~ 100% (by weight)	
Compressive Strength	ASTM C-579	7,426 psi (51.2 Mpa)
Pull-off Strength	ASTM D-4541	>350 psi (2.5 MPa) (100% concrete failure)
VOC Content		43 g/L
Tensile Strength	ASTM D-638	4,902 psi (33.8 Mpa)
Elongation	ASTM D-638	8.3 %
Shore D	ASTM D-2240	82
Flexural Strength	ASTM D-790	8,558 psi (59 Mpa)
Flexural Modulus of Elasticity	ASTM D-790	8.34 x 10 ⁵ psi (5.7 x 10 ³ MPa)
Abrasion resistance (CS-17/1000rot/1000g)	ASTM D-4060	90 mg
Water absorption (2 hours boiling)	ASTM C-413	0.05 %
Water vapor transmission	ASTM E-96	0.33 g/hour/sq-meter
Gloss @ 60 degrees	ASTM D-523	90
Shelf Life	2 years in unopened container, Store dry between 40° - 90°F (4° - 32°C)	
Chemical Resistance	Please consult Sikafloor Technical Services.	

**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 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/coating and the 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

Primer or Smooth Finish Coating:

Priming for concrete substrate is required. Prime with either **Sikafloor 160, Sikafloor 161, Sikafloor 1610, Sikafloor 165 FS or 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. Sikafloor 264 may be used as a primer on concrete substrates for Sikafloor Coating Systems subjected to light traffic use.

Please refer to the most current and respective Product Data Sheet for further information.

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.



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Application

As 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 pinhole-free 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.

As 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.

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° 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.

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.



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Industrial Flooring

- 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.

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

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

Prior to each use of any Sika product, the user must always read and follow the warnings and instructions on the product's most current Product Data Sheet, product label and Safety Data Sheet which are available online at <http://usa.sika.com/> or by calling Sika's Technical Service Department at 800-933-7452. Nothing contained in any Sika materials relieves the user of the obligation to read and follow the warnings and instruction for each Sika product as set forth in the current Product Data Sheet, product label and Safety Data Sheet prior to product use.

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 shelf life. User determines suitability of product for intended use and assumes all risks. Buyer's sole remedy shall be limited to the purchase price or replacement of product exclusive of labor or cost of labor. **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. SALE OF SIKA PRODUCTS ARE SUBJECT SIKA'S TERMS AND CONDITIONS OF SALE AVAILABLE AT [HTTP://USA.SIKA.COM/](http://usa.sika.com/) OR BY CALLING 201-933-8800.**

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