



PRODUCT DATA SHEET

Sikafloor®-265

Flexible Epoxy Membrane

PRODUCT DESCRIPTION

Sikafloor®-265 is a two component, high solids and elastomeric epoxy for use as a flexible membrane. Sikafloor®-265 is a true elastomer for use as a seamless, waterproofing membrane for floor and wall applications. This unique polymer system maximizes flexibility and elongation to provide excellent crack bridging capabilities. Applied as a clear or field pigmented with Sikafloor Epoxy Color Additive-N. When properly applied, is certified to ANSI 118.10 for waterproofing membrane at applied thickness of 40 mils.

USES

Sikafloor®-265 may only be used by experienced professionals.

It is ideal for mechanical equipment rooms, floors and walls in interior spaces where humidity and temperature are micro-controlled, access floor systems for computer rooms and offices where liquid lines prevail as well as areas requiring an elastomeric water protection surface. Sikafloor®-265 may be used as a waterproofing membrane. Sikafloor®-265 is an integral component of the Sika Merflex waterproofing system.

CHARACTERISTICS / ADVANTAGES

- Economical
- Easy to apply
- High solids
- Flexible, bridges hairline cracks
- Meets USDA requirements
- Wide range of colors with Sikafloor Epoxy Color Additive-N.

PRODUCT INFORMATION

Packaging	Component A:	5.0 US gal.(18.9 L) fill in 5 gal. pail
	Component B:	5.0 US gal.(18.9 L) fill in 5 gal. pail
	Components A+B:	10.0 US gal. kit (37.8 L)
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 quarts of color additives may be required per 10 gallons (37.9 L) mix.	
Shelf Life	2 years in original unopened packaging	
Storage Conditions	Store dry between 40° - 90°F (4°- 32°C).	
Volatile organic compound (VOC) content	2 g/l	Components A+B

TECHNICAL INFORMATION

Shore D Hardness	40	ASTM D2240 at 73°F (23°C) and 50% R.H
Tensile Strength	1,050 psi (7.2 MPa)	ASTM D638 at 73°F (23°C) and 50% R.H
Elongation at Break	125%	ASTM D638 at 73°F (23°C) and 50% R.H
Tensile Adhesion Strength	520 psi (3.6 MPa) 100% concrete failure	ASTM D4541 at 73°F (23°C) and 50% R.H
Tear Strength	90 lbs (0.40)	ASTM D1938 at 73°F (23°C) and 50% R.H
Impact Strength	160 in - lbs. (1.8 kg-m.) direct and reverse	ASTM D2794 at 73°F (23°C) and 50% R.H
Chemical Resistance	Please consult Sikafloor Technical Services.	
Thermal Resistance	Self Extinguishing	ASTM D635 at 73°F (23°C) and 50% R.H
Mixing Ratio	1 : 1 by volume.	
Coverage	Sikafloor®-265	
	Primer:	160 - 200 ft ² / US gal (3.9 - 4.9 m ² / L) at 8 - 10 mils (0.2 - 0.25 mm) wet film thickness (w.f.t.).
	Smooth Finish Coating:	80 ft ² / US gal (1.9 m ² / L) at 20 mils (0.5 mm) wet film thickness (w.f.t.). Minimum 2 coats are required for waterproofing [40 mils (1 mm) total].
	Broadcast Layer:	54 - 80 ft ² / US gal (1.3 - 1.9 m ² / L) at 20 - 30 mils (0.5 - 0.75 mm) wet film thickness (w.f.t.)
Ambient Air Temperature	Minimum/Maximum 50°/85°F (10°/30°C)	
Substrate Temperature	Minimum/Maximum 50°/85°F (10°/30°C).	

Pot Life	Material Temperature		Time
	+50°F (10°C)		60 minutes
	+68°F (20°C)		45 minutes
	+86°F (30°C)		30 minutes

Cure Time	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 days	4 days

Waiting / Recoat Times	Before applying second coat Sikafloor 265 allow:		
	Substrate Temperature	Minimum	Maximum
	+50°F (10°C)	24 hours	3 days
	+68°F (20°C)	12 hours	2 days
+86°F (30°C)	8 hours	1 days	

Before applying Sikafloor Epoxy or Polyurethane on Sikafloor 265 allow:

Substrate Temperature	Minimum	Maximum
+50°F (10°C)	24 hours	3 days
+68°F (20°C)	12 hours	2 days
+86°F (30°C)	8 hours	1 days

Applied Product Ready for Use

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.

Priming

When Sikafloor®-265 used as a waterproofing membrane must be a minimum of 40 mils. If applying in a single coat, primer must be used. 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 membrane 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

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 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 Color Additive-N is added to Component A at a rate of 1 quart per 4 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 4 mixed gallons (i.e. Components A+B).

Mix Component A and Sikafloor Epoxy Color Additive 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) in the correct mix ratio to Component A (Resin) and mix for additional 2 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.

Do not mix more material than can be applied within the working time limits (i.e. Pot Life) at the actual field temperature.

APPLICATION

As Primer

Apply primer by squeegee at the rate of 160 - 200 ft² / US gal (3.4 – 4.9 m² / L) at 8 – 10 mils (0.20 – 0.25 mm) wet film thickness (w.f.t.) and back roll with pressure after 15 minutes. Coverage will vary depending on the porosity of the prepared substrate. 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 Sealer/Membrane

Sikafloor®-265 is applied with a 10 - 20 mils (0.25 - 0.50 mm) notched squeegee over a smooth surface. Back rolling is typically done with an 18 inch (455 mm) wide 3/8 inch (10 mm) short nap, solvent-resistant roller cover. Back roll the Sikafloor®-265 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.

As Broadcast Layer

Sikafloor®-265 is poured in the form of a ribbon on the surface to be coated and spread evenly with a 30 mils (0.75 mm) notched squeegee over a smooth surface. The back rolling is typically done with an 18 inch (454 mm) wide short nap, 3/8-inch (10mm), solvent-resistant roller cover. After the materials has leveled out (approx. 10 - 15 min after placing the material), start broadcasting quartz sand to full rejection. As Wall Coating: Apply in accordance with Sikagard Wall Systems technical system sheet.

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 ≤ 6 % 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 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.

Relative Ambient Humidity: Maximum ambient humidity 85 % (during application and curing).

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September 2020, Version 01.05

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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/membrane to the prepared surface 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 concrete substrate. If necessary, apply an additional coat to ensure that the membrane is pore-free and pinhole-free and provides uniform and complete coverage over the entire concrete substrate.

- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur.
- 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.

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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020811030020000001

Sikafloor-265-en-US-(09-2020)-1-5.pdf

