BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-264 Thixo

PIGMENTED THIXOTROPIC EPOXY TOPCOAT

PRODUCT DESCRIPTION

A two-component, high solids, epoxy based, pigmented thixotropic topcoat providing a textured or light orange peel texture finish. May be used as a topcoat on Sikafloor® Epoxy Flooring Systems. Designed as a top coat over Sikafloor® MultiDur TG Systems to enhance abrasion and chemical resistance.

USES

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

Grout coat and topcoat for Sikafloor® trowelled epoxy mortar & cove systems with normal up to medium heavy wear (e.g. storage, hallways, corridors and assembly halls, maintenance workshops, garages and loading ramps). Can be applied as a topcoat for Sikafloor® epoxy systems creating a light orange peel texture finish.

CHARACTERISTICS / ADVANTAGES

- Thixotropic - light orange peel texture
- Grout coat for trowelled epoxy mortar & cove systems
- Top coat for epoxy mortar and cove systems
- Excellent abrasion resistance
- Excellent impact resistance
- Good chemical and mechanical resistance
- Durable, impermeable and seamless

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)
Appearance / Color	Sikafloor® standard epoxy colors. Refer to Standard Color Guide. Custom colors available upon request. Refer to current price list for availability.	
Shelf Life	24 months from date of production	
Storage Conditions	The product must be stored in original, unopened and undamaged sealed packaging in dry conditions at temperatures between 41 °F (5 °C) and 86 °F (30 °C).	

Volatile organic compound (VOC) content 96 g/L (A+B Combined)

TECHNICAL INFORMATION

Shore D Hardness	76	ASTM D2240 at 73°F (23°C) and 50% R.H
Abrasion Resistance	58 mg loss (CS-17/1000 rotations/1000g)	ASTM D4060 at 73°F (23°C) and 50% R.H
Compressive Strength	7,250 psi (50 N/mm²) (28 days)	ASTM C579 at 73°F (23°C) and 50% R.H
Flexural Strength	2,900 psi (20 N/mm²) (28 days)	ASTM C-580 at 73°F (23°C) and 50
Tensile Adhesion Strength	> 400 psi (2.7 MPa) (100 % concrete failure)	ASTM D4541 at 73°F (23°C) and 50
Chemical Resistance	Please consult Sikafloor Technical Services.	

APPLICATION INFORMATION

Mixing Ratio

2 : 1 by volume

Coverage

200–266 ft² / per mixed US gal. (4.9–6.5 m² / L) at 6–8 mils (0.15–0.2 mm) wet film thickness (w.f.t.).

Pot Life

Material Temperature	Time
50 °F (10 °C)	~ 40 minutes
68 °F (20 °C)	~ 25 minutes
86 °F (30 °C)	~ 15 minutes

Cure Time

Ambient & SubstrateTemperature	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 Thixo allow:

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 Thixo allow:

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

Times are approximate and will be affected by changing ambient conditions particularly temperature and relative humidity.

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 22NA or 24NA 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 % according to ASTM F2170 use Sikafloor 1610 or Sikafloor 22NA or 24NA PurCem®. ASTM F2170 testing is not a substitute for measuring substrate moisture content. Use aTramex® 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.

Relative Ambient 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.

- 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.
- Freshly applied material should be protected from dampness, condensation and water for at least 72 h.
- 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.

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.

Priming
Priming for concrete substrate is required. Prime with either Sikafloor-161, Sikafloor-1610 or Sikafloor- 165 FS. 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.
If used as a Grout coat/Top coat primer is not required. Please refer to the individual most current and respective Product Data Sheet for specific and detailed information.

MIXING

Mixing Ratio - 2 : 1 by volume.
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.

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 a Grout Coat on Sikafloor Epoxy Mortar Systems
Sikafloor® 264 Thixo Lite is applied with a flat rubber squeegee or flat metal trowel tightly over a smooth surface. Back-rolling is typically done with an 18 inch (455 mm) wide nap, 3/8-inch (10 mm), solvent-resistant roller cover. Back-roll the Sikafloor® 264 Thixo Lite 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 a Top Coat
Sikafloor® 264 Thixo Lite is applied with a flat rubber squeegee tightly over a smooth surface. Back rolling is typically done with an 18 inch (455 mm) wide nap, 3/8-inch (10 mm), solvent-resistant roller cover. Back-roll the Sikafloor® 264 Thixo Lite 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.
Note: The texture will vary depending on the mill thickness and type of roller used.

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.**

Sale of SIKA products are subject to the Terms and Conditions of Sale which are available at https://usa.sika.com/en/group/SikaCorp/termsandconditions.html or by calling 1-800-933-7452.

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

Sika Mexicana S.A. de C.V.
Carretera Libre Celaya Km. 8.5
Fracc. Industrial Balvanera
Corregidora, Queretaro
C.P. 76920
Phone: 52 442 2385800
Fax: 52 442 2250537