BUILDING TRUST

PRODUCT DATA SHEET

Sikafloor®-2870 Line Striping

WATER BASED EPOXY LINE STRIPING FOR HIGH PERFORMANCE FLOOR FINISHES

PRODUCT DESCRIPTION

Sikafloor 2870 Line Striping is a water-based, low VOC, two part epoxy resin line striping and traffic marking coating.

USES

Sikafloor®-2870 Line Striping may only be used by experienced professionals.

Sikafloor 2870 Line Striping is designed as a line striping coating for Sikafloor epoxy and urethane coatings, as well as for broadcast and troweled systems.

CHARACTERISTICS / ADVANTAGES

- Water based, low VOC's
- Bright, long lasting colors
- Excellent penetration and adhesion
- Easy application
- Reduced recoat times

PRODUCT INFORMATION

Packaging	Component A:	1.5 US gal. (5.68 L) fill in a 2 gal. pail
	Component B:	1.0 US gal. (3.78 L) fill in a 1 gal. can
	Components A+B:	2.5 US gal. (9.46 L)
Appearance / Color	Traffic Red White Safety Yellow	
Shelf Life	12 months in original unopened container under proper storage conditions.	
Storage Conditions	Store dry between 40°- 90°F (4°- 32°C) . Do not allow to freeze	
Volatile organic compound (VOC) content	40 g/L	Components A+B
Viscosity	3500 Cps	ASTM D2196 at 73°F (23°C) and 50 % R.H
Shore D Hardness	85	ASTM D2240 at 73°F (23°C) and 50 % R.H

Abrasion Resistance	0.141g (CS-17) 1000 rotations/1000g	ASTM D2749 at 73°F (23°C) and 50 % R.H
Elongation at Break	3%	ASTM D638 at 73°F (23°C) and 50 % R.H
Tensile Adhesion Strength	>435 Psi (>3Mpa)	ASTM D4541 at 73°F (23°C) and 50 % R.H
Impact Strength	3.6 ft-lb	ASTM D2794 at 73°F (23°C) and 50 % R.H
Service Temperature	50°F (10°C) min./86°F (30°C) max.	
Water Absorption	2.50% (24 hours boiling)	ASTM C413 at 73°F (23°C) and 50 % R.H
Permeability to Water Vapor	9.7 Perm	ASTM E96 at 73°F (23°C) and 50 % R.H
Coefficient of Friction	0.16	ANSI 137.1 at 73°F (23°C) and 50 % R.H
Mixing Ratio	1.5 : 1 by volume.	
Coverage	160 - 530 ft2 / US gal (3.9 – 4.9 m2 / L) at 3 - 10 mils (0.08 – 0.25 mm) wet film thickness	

Pot Life

Material Temperature	Time
+73°F (23°C)	~ 25 min

Pot life is not visible, product remains liquid after exceeding pot life. Application after pot life limit may result in adhesion failure. Do not apply after pot life limit.

Cure Time

Ambient & Substrate Temperature	Foot Traffic	Light Traffic	Full cure
50 °F (10 °C)	~ 24 hours	~ 2 days	~ 3 days
73 °F (23 °C)	~ 14 hours	~ 24 hours	~ 36 hours
86 °F (30 °C)	~ 10 hours	~ 18 hours	~ 24 hours

Waiting / Recoat Times

Ambient & Substrate Temperature	Time Minimum
50 °F (10 °C)	~12 hours
73 °F (23 °C)	~ 3 hours
86 °F (30 °C)	~ 2 hours

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 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 onmechanically prepared surface according to this product data sheet (preparation to CSP-3 to CSP-4 as per ICRI guidelines). 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.

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 physical 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.
- Do not apply to bare, unsealed concrete in rising temperature conditions.
- Will discolor over time when exposed to sunlight (UV) and under certain artificial lighting conditions. Use of clear UV resistant topcoat 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 airflow and changes in airflow. 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.

SURFACE PREPARATION

Surface must be clean, sound and dry. Remove dust, laitance, grease, curing compounds,Preparation Remove all 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.

Existing Coatings
Abrade surface to remove glaze and create dull surface profile. Wipe to remove dust and debirs.

Bare ConcreteBare Concrete
Wipe to remove dust laitance-free and contaminant free,open textured surface by shot blasting or equivalent mechanical means (CSP-2 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 and substrate.

Whenever “shotblasting” 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.

MIXING

Mixing Ratio: - 1.5 : 1 by volume.
For bulk packaging, when not mixing full units, each component must be pre-mixed separately to ensure product physical.

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

APPLICATION

Apply by brush or roller at the rate of 160 - 320 ft2 / US gal (3.9 – 7.8 m2 / L) at 5 – 10 mils (0.13 – 0.25 mm) wet film thickness (w.f.t.) and back-roll with pressure. Coverage will vary depending on the texture of the prepared floor. Product has a limited pot life, see Typical Data. 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.

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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