

## PRODUCT DATA SHEET

# Sikafloor®-293

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### CLEAR EPOXY COVE RESIN

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#### PRODUCT DESCRIPTION

Sikafloor®-293 is a thixotropic binder resin specifically designed for cove and vertical applications. Sikafloor®-293, when mixed with Sikafloor- Decorative® Quartz, Sikadur®-505, - 506, -506ER,- 506RC and - 508 aggregates, may be applied up to 1/4" thick vertically.

#### USES

Sikafloor®-293 may only be used by experienced professionals.

Sikafloor®-293 is used where the maximum Sanitation/Hygiene is required. It can provide rounded and sealed corners.

#### CHARACTERISTICS / ADVANTAGES

- Designed specifically for trowel application on vertical surfaces
- Good mechanical resistance
- Versatile usage with other Sikafloor systems
- Excellent adhesion

## PRODUCT INFORMATION

<b>Packaging</b>	<u>Component A</u>	<u>1.5 US gallon (5.6 L) fill in 2 gallon pail</u>
	<u>Component B</u>	<u>0.5 US gallon (1.8 L) fill in 1 gallon can</u>
	<u>Components A+B:</u>	<u>2.0 US gallon kit (7.57 L)</u>
<b>Appearance / Color</b>	Neutral/Clear or pigmented with Sikafloor Epoxy Pigment Packs	
<b>Shelf Life</b>	2 years in original unopened container under proper storage	
<b>Storage Conditions</b>	Store dry between 40 - 90 °F (4 - 32 °C)	

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	80 - 85	ASTM D2240 at 73 °F (23 °C) and 50% R.H
<b>Impact Strength</b>	2.62 ft.lb	ASTM D2794 at 73 °F (23 °C) and 50% R.H
<b>Compressive Strength</b>	7,832 psi (54 MPa)	ASTM C579 at 73 °F (23 °C) and 50% R.H
<b>Flexural Strength</b>	2,132 psi (14.7 MPa)	ASTM C580 at 73 °F (23 °C) and 50% R.H
<b>Tensile Strength</b>	2,031 psi (14 MPa)	ASTM C307 at 73 °F (23 °C) and 50% R.H
<b>Tensile Adhesion Strength</b>	725 psi (>5 MPa)	ASTM D7234 at 73 °F (23 °C) and 50% R.H
<b>Thermal Resistance</b>	Pass	ASTM C844 at 73 °F (23 °C) and 50% R.H
<b>Indentation</b>	0.40%	ASTM Mil-PRF-24613 at 73 °F (23 °C) and 50% R.H
<b>Water Absorption</b>	1.2% (24 hours boiling)	ASTM C413 at 73 °F (23 °C) and 50% R.H

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	3 : 1 by volume plus approximately 45 - 60 pounds of the aforementioned Sikafloor-Decorative® Quartz and Sikadur® aggregates per gallon of mixed Sikafloor®-293	
<b>Coverage</b>	As a primer, applied at 4 - 6 wet mils vertically. For cove application, applied at approximately 50 In.ft. per gallon with specified aggregates at 1/8" thick at 4" high. Coverage rates are calculated based on material needed for finishing of smooth surfaces.	
<b>Substrate Temperature</b>	50 °F (10 °C) min. / 95 °F (35 °C) max.	
<b>Pot Life</b>	<b>Material Temperature</b>	<b>Time</b>
	50 °F (10 °C)	~ 40 minutes

Cure Time	Ambient & Substrate Temperature	Light Traffic	Full Cure
	50 °F (10 °C)	~ 3 days	~ 10 days
68 °F (20 °C)	~ 2 days	~ 7 days	
86 °F (30 °C)	~ 1 day	~ 4 days	

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Waiting / Recoat Times	Ambient & Substrate Temperature	Time Minimum
	50 °F (10 °C)	~ 20 hours
68 °F (20 °C)	~ 6 hours	
86 °F (30 °C)	~ 3 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

### 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  $\leq 4\%$  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) but  $< 6\%$  as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor®-1620. If moisture content is  $\geq 6\%$ , use Sikafloor® 22 NA or 24 NA PurCem®.

When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be  $\leq 85\%$ . If values are  $> 85\%$  but  $< 96\%$  according to ASTM F2170 use Sikafloor®-1620. If values are  $\geq 96\%$ , use Sikafloor® 22 NA or 24 NA PurCem®.

**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:** Apply the primer to the prepared substrate 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 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 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.

### 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

Apply Sikafloor®-293 or another Sikafloor epoxy primer at approximately 4 - 6 mils. If the primer will be cured prior to the application of the cove, it is recommended to broadcast an angular aggregate to assist in creating a tooth or roughened surface for the wet cove material to grab.

### MIXING

Mixing Ratio: 3: 1 by volume plus approximately 45-60 pounds of the aforementioned Sikafloor-Decorative® Quartz and Sikadur® aggregates per gallon

of mixed Sikafloor®-293.

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. 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.

Transfer the mixed binder (components A+B) into a suitable mechanical mixer. Gradually add specified aggregates (component C) to the binder. Once all ingredients are combined, mix continuously and thoroughly for 2 to 4 minutes to ensure complete mixing. Make sure the contents are completely mixed to avoid any weak or partially cured spots in the mortar. Immediately transfer the materials onto the floor where the cove is to be installed.

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

### APPLICATION

The use of a low level light along the floor/wall intersection will show shadows and aide in reducing trowel marks or ridges. After thoroughly mixing, immediately deliver material along the floor/wall. Apply the material by striking it up the wall with a steel trowel or margin trowel, ensure the thickness is consistent. Keep the trowel clean by wiping with a rag dampened with solvent. The solvent will act as a lubricant to assist in troweling, do not use water. Finish with a cove trowel.

## 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](http://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.

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**Sika Corporation**

201 Polito Avenue  
Lyndhurst, NJ 07071  
Phone: +1-800-933-7452  
Fax: +1-201-933-6225  
[usa.sika.com](http://usa.sika.com)



**Product Data Sheet**

Sikafloor®-293  
March 2025, Version 03.01  
020811020010000096

Sikafloor-293-en-US-(03-2025)-3-1.pdf

