



PRODUCT DATA SHEET

Sikafloor®-293

CLEAR EPOXY COVE RESIN

PRODUCT DESCRIPTION

Sikafloor®-293 is a two-component, epoxy resin-based, thixotropic primer and binder specially designed for coving and other vertical applications. When mixed with Sikafloor Decorative® Quartz and Sikafloor® Aggregate PT, may be applied up to 6 mm (1/4 in) thick vertically.

WHERE TO USE

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

Packaging	Component A:	5.68 L (1.5 US gal) fill in 2 gallon pail
	Component B:	1.89 L (0.5 US gal) fill in 1 gallon can
	Components A+B:	7.57 L (2 US gallon) unit
Appearance / Colour	Neutral/Clear	
Shelf Life	2 years in original unopened container under proper storage	
Storage Conditions	Store dry between 4–32 °C (40–90 °F)	
Volatile organic compound (VOC) content	21 g/L	A+B Combined

TECHNICAL INFORMATION

Shore D Hardness	80	ASTM D2240 at 23°C (73°F) and 50 % R.H
Abrasion Resistance	2.8 g (H-22) 1000 rotations/1000 g	ASTM-D4060 at 23°C (73°F) and 50 % R.H
Resistance to Impact	2.62 ft.lb	ASTM D2794 at 23°C (73°F) and 50 % R.H
Compressive Strength	54 MPa (7832 Psi)	ASTM C579 at 23°C (73°F) and 50 % R.H
Tensile Strength in Flexure	14.7 MPa (2132 Psi)	ASTM C580 at 23°C (73°F) and 50 % R.H
Tensile Strength	14 MPa (2031 Psi)	ASTM C307 at 23°C (73°F) and 50 % R.H
Modulus of Elasticity in Tension	1498 MPa (217 267 Psi)	ASTM C580 at 23°C (73°F) and 50 % R.H
Pull-Off Strength	>5 MPa (725 Psi)	ASTM D4541 at 23°C (73°F) and 50 % R.H
Temperature Resistance	Pass	ASTM C844 at 23°C (73°F) and 50 % R.H
Coefficient of Friction	2.71x10 ⁻⁵ mm/mm/°C (1.50x10 ⁻⁵ in/in°F)	ASTM D696 at 23°C (73°F) and 50 % R.H
Indentation	0.40 %	ASTM Mil-PRF-24613 at 23°C (73°F) and 50 % R.H
Water Absorption	1.2 % (24 hours boiling)	ASTM C413 at 23°C (73°F) and 50 % R.H

APPLICATION INFORMATION

Mixing Ratio	3: 1 by volume plus Sikafloor-Decorative® Quartz and/ or Sikafloor® Aggregate PT at approximately 5 -7 kg/L of mixed Sikafloor®-293.			
Consumption	As a primer, applied at 4 - 6 wet mil vertically. For cove application, applied at approximately 4 lin.m/L (50 lin. ft. /US gal) with specified aggregates at 3mm (1/8") thick at 100 mm (4") high. Coverage rates are calculated based on material needed for finishing of smooth surfaces.			
Substrate Temperature	10 °C (50 °F) min./ 35 °C (95 °F) max			
Pot Life	Material Temperature	Time		
	10 °C (50 °F)	~ 40 minutes		
Curing Time	Ambient & Substrate Temperature	Foot Traffic	Light Traffic	Full cure
	10 °C (50 °F)	~ 24 hours	~ 3 days	~ 10 days
	23 °C (73 °F)	~ 8 hours	~ 2 days	~ 7 days
	35 °C (96 °F)	~ 3 hours	~ 1 days	~ 4 days

10 °C (50 °F)

~ 20 hours

23 °C (73 °F)

~ 5 hours

35 °C (95 °F)

~ 2 hours

BASIS OF PRODUCT DATA

Product properties are typically averages, obtained under laboratory conditions. Reasonable variations can be expected on-site due to local factors, including environment, preparation, application, curing and test methods.

LIMITATIONS

Apply the primer coat of Sikafloor®-293 to the prepared surface using to provide uniform coverage. Ensure that the coating is pore-free and pinholefree 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.

- For professional use only by experienced applicators.
- 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.
- Sikafloor®-293 must be applied as supplied.
- Any aggregate used with Sikafloor®-293 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.
- 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 three (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.

- 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.
- Not recommended when using a clear system. 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

ENVIRONMENT, HEALTH & SAFETY

User must read the most recent corresponding Safety Data Sheets (SDS) before using any products. The SDS provides information and advice on the safe handling, storage and disposal of chemical products and contains physical, ecological, toxicological and other safety-related data.

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 25 MPa (3625 psi) at 28 days and a minimum of 1.5 MPa (218 psi) 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

Sikafloor®-293 can be used as a thixotropic primer or use Sikafloor Vertical Epoxy Primer. Apply at approximately 4–6 mils. Allow primer to start to become tacky for best results. If the primer loses its tack, re-prime. 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 5-7 kg of the aforementioned Sikafloor-Decorative® Quartz and Sikafloor® Aggregate PT per 1 L of mixed Sikafloor®-293.

Mix the combined components for at least three (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.

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 two (2) to four (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 than 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.

LOCAL RESTRICTIONS

Note that as a result of specific local regulations the declared data and recommended uses for this product may vary from country to country. Consult the local Product Data Sheet for exact product data and uses.

LEGAL NOTES

The information, and in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request or may be downloaded from our website at: www.sika.ca

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