



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 highest sanitary and hygienic standards are required since it allows for a rounded and sealed angle at the junction of the floor and the wall.

CHARACTERISTICS / ADVANTAGES

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

PRODUCT INFORMATION

Packaging	Components A+B: 7.57 L (2 US gal)	
	Component A: 5.68 L (1.5 US gal) Component B: 1.89 L (0.5 US gal)	
Appearance / Colour	Clear	
Shelf Life	2 years in original unopened container under proper storage conditions	
Storage Conditions	Store in a dry place, protected from freezing at a temperature between 5 °C and 32 °C (41 °F and 90 °F). Protect from freezing. If Sikafloor®-293 has frozen, contact Sika Canada.	
Volatile organic compound (VOC) content	21 g/L	A+B Combined

TECHNICAL INFORMATION

Shore D Hardness	~80	(ASTM D2240)
Abrasion Resistance	~2.8 g loss: H-22 wheel /1000 g /1000 cycles	(ASTM D4060)
Resistance to Impact	~2.62 ft.lb	(ASTM D2794)
Compressive Strength	~54 MPa (~7830 Psi)	(ASTM C579)
Tensile Strength in Flexure	~14.7 MPa (~2130 Psi)	(ASTM C580)
Tensile Strength	~14 MPa (~2030 Psi)	(ASTM C307)
Modulus of Elasticity in Tension	~1498 MPa (~217 267 Psi)	(ASTM C580)
Pull-Off Strength	>5 MPa (725 Psi)	(ASTM D4541)
Temperature Resistance	Pass	(ASTM C844)
Coefficient of Friction	~2.71x10 ⁻⁵ mm/mm/°C (~1.50x10 ⁻⁵ in/in°F)	(ASTM D696)
Indentation	~0.40 %	(ASTM Mil-PRF-24613)
Water Absorption	~1.2 % (24 hours boiling)	(ASTM C413)

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. Note: Coverage rates are calculated based on material needed for finishing of smooth surfaces.
Product Temperature	Condition product at temperatures between 18 °C to 30 °C (65 °F to 86 °F) before and during application.
Ambient Air Temperature	Minimum: 10 °C (50 °F) / Maximum: 30 °C (86 °F) Note: Mixing carried out under conditions where the Sikafloor®-293 temperature and ambient temperature are below 18 °C (65 °F) will result in reduced product workability and slower curing rates.
Relative Air Humidity	Maximum 85 % (during application and curing).
Dew Point	Substrate must be at least 3 °C (5 °F) 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.
Substrate Temperature	Minimum: 10 °C (50 °F) / Maximum: 30 °C (86 °F) Note: Any attempt to apply Sikafloor®-293 at substrate temperature conditions less than 18 °C (65 °F) will result in an increase in viscosity and slower cure rates.
Substrate Moisture Content	Moisture content of concrete substrate must not exceed 6 % by mass (p.b.w).

– part by weight) as measured with a Tramex® CM/E concrete moisture meter on a mechanically-prepared surface (mechanical preparation to ICRI / CSP 3-4 when used on floors for detailing work).

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
Waiting Time / Overcoating	Ambient & Substrate Temperature		Minimum Time	
	10 °C (50 °F)		~ 20 hours	
	23 °C (73 °F)		~ 5 hours	
	35 °C (95 °F)		~ 2 hours	

IMPORTANT: If the maximum waiting time has been exceeded. The previous coat must be lightly sanded, to remove all gloss; vacuum cleaning using a brush attachment followed promptly with a solvent wipe off the surface as per the following generally accepted practices:

- **Avoid using solvent that can leave a oily residue:** (such as, but not limited to most mineral spirit).
- **Avoid Paper Towels:** Pre-treated shop towels or standard paper towels may contain silicone or manufacturing additives that will ruin your paint job. Stick to lint-free cotton cloths or dedicated microfiber towels.
- **Change Rags Frequently:** As soon as a rag becomes visibly dirty, discard it or fold it to a clean side. Continuing to wipe with a saturated, dirty rag just re-deposits contaminants onto the surface.
- **Wet Wipe:** Pour a solvent (onto the first rag. Do not dip the rag into the solvent container; pour it directly to keep your supply clean).
- **Lift:** Wipe down a small, manageable section (e.g., ~0.5 m² [~ 4-6 ft²]) of the surface. Use enough pressure to break up and lift the oils or sanding dust. Rotate the cloth frequently so you are always using a clean spot.
- **Dry Wipe:** Before the solvent can flash off (evaporate) and dry on the surface, wipe the same section with a second, clean, lint-free rag. When used correctly, this second cloth absorbs residual solvent and removes materials that could reduce or prevent adhesion or the proper performance of the next coat.

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.

Properties tested at 23 °C (73 °F) and 50 % R.H. unless stated otherwise.

LIMITATIONS

NOTE: The user is solely responsible for the proper use of the product. Any site visit carried out by Sika®

personnel, upon the user's request, is intended solely to provide written technical recommendations based on Sika® documentation. They are in no way intended to supervise, approve or control the quality of the work performed on site. The information contained herein does not relieve the user of the products from testing them for the intended application and purpose.

- 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.
- Do not apply to cracked or unsound substrates.
- Do not apply on porous surfaces where outgassing conditions are present during the application of Sikafloor®-293.
- Do not apply on porous surfaces where a transfer of moisture vapour may occur during application.
- Do not apply while ambient and substrate temperatures are rising, as pinholes may occur.
- Do not use on exterior, Sikafloor®-293 is for interior use only.
- Do not apply to surfaces where water vapour could condense and freeze.
- Do not apply to substrates exposed to extreme thermal shock.
- This product is not designed for negative side waterproofing.
- Do not dilute Sikafloor®-293. Adding diluents (water, solvent, etc.) will slow curing and reduce the final properties of this product. Diluents must never be added to the mixture. Adding diluent will void any applicable Sika® warranty.

As well, Sika® recommends:

Note: The following three (3) recommendations apply when Sikafloor®-293 is used on floors for detailing work:

- That 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.).
- That when used for floor detailing. To verify and ensure that moisture content of concrete substrate must be $\leq 4\%$ (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 ICRI / CSP 3 - 5). Do not apply to concrete substrate with moisture levels exceeding 4% (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter. If moisture content of concrete substrate exceeds 4% (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor®-1620 or Sikafloor®-81 EpoCem®CA on horizontal surfaces and Sikagard®-75 EpoCem®CA on walls applications.
- To keep in mind that ASTM F2170 testing is not a substitute for measuring substrate moisture content with a Tramex® CME/CMExpert type concrete moisture meter as described above.
- To beware of Dew Point condensation (the substrate temperature may be lower than the ambient temperature).
- That the maximum relative ambient should not exceed 85% during application and curing.
- To maintain and extend existing expansion joints through the Sikafloor® flooring system.

- That applied material will follow undulations, depressions, lines, etc. of the underlying substrate. Visual appearance of the finished surface may vary, including, but not limited to, reflection of “waviness”, wall transitions, etc.
- That any aggregate used with Sikafloor®-293 must be non-reactive and oven-dried.
- To take into account that the mechanical and physical properties are achieved when full curing is complete.
- That freshly applied material should be protected from dampness, condensation and water for at least 72 hours. Protect substrate during application from condensation from pipes or any overhead leaks.
- To take into account that direct-fired gas or kerosene heaters produce byproducts that can have adverse effects on the curing resin. To avoid this occurrence, heaters must be exhausted to the exterior of the building to avoid defects such as surface blush, whitening, loss of adhesion or other surface deficiencies.
- To beware of airflow and changes in airflow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.
- To apply the primer coat Sikafloor®-293 to the prepared surface, ensuring even coverage. Make sure the coating is free of pores and pits and that it evenly and completely covers the entire concrete substrate. If necessary, apply an additional coat to guarantee that the coating is free of pores and pits and that it evenly and completely covers the entire concrete substrate.

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

SUBSTRATE QUALITY

Concrete surfaces must be clean and sound. 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 (217 psi) in tensile strength, at the time of the application.

Substrates must be free of contaminants such as dust, dirt, existing paint films, efflorescence, exudates, laitance, form, hydraulic or fuel oils, brake fluid, grease, fungi, mildew, biological residues or any other contaminants which may prohibit good bond or conditions of the substrate that may reduce the overall performances of Sikafloor®-293.

SURFACE PREPARATION

Before work commences, examine the areas to be

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covered and report any improper condition(s) in writing to the general contractor, architect or engineer (or otherwise, the owner). User shall not proceed with the work until surfaces and conditions comply with the requirements indicated in this document; applicable industry standards; federal, provincial and local regulations, as well as good trade practices. By starting work, the Applicator/User acknowledges that the conditions are acceptable.

Prepare the surface by any appropriate mechanical means, in order to achieve a profile equivalent to a minimum of ICRI CSP 3 (note: ICRI CSP 5 when used on floor applications, will provide better overall performances where high shear stress from dynamic loads may be present or that can reasonably be expected). Whenever "shot-blasting" 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 "shot blast" pattern may show through the last coat, known as "tracking".

Repairs to cementitious substrates, filling of blowholes, levelling of irregularities, etc. should be carried out using an appropriate Sika profiling mortar. Contact Sika Technical Service for recommendations in writing.

Note: Contact Sika's Technical Service for installation recommendations in writing concerning substrates or conditions not listed.

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

Mix Ratio: Components A:B = 3:1 (by volume)

IMPORTANT:

- Do not hand mix Sikafloor® materials; mechanically mix only. Follow adding approximately 5-7 kg of the aforementioned Sikafloor-Decorative® Quartz and Sikafloor® Aggregate PT per 1 L of mixed Sikafloor®-293 (see below).
- Sikafloor®-293 must be applied as supplied.

Pre-stir Components A and B separately, making sure all solids, are evenly distributed. Empty Component B (Hardener) in the correct mix ratio into Component A (Resin) or empty Component A into a suitably sized and clean pail and add Component B in the correct ratio.

Blend the combined components thoroughly at low speed (300 - 450 rpm) for at least three (3) minutes using a drill fitted with an Exomixer® or Jiffy type paddle suited to the dimensions of the mixing container and keep the mixing paddle in the mix to avoid entrapping air. Take care 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 attempt to attend to unmixed material that may gather on the sides of the mixing container while mechanical or electrical parts are in motion. When completely mixed, Sikafloor®-293 should be uniform in appearance and consistency.

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.

Note: 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 aid 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.

CLEAN UP

Clean all tools and equipment with a non-flammable solvent. Once hardened, product can only be removed mechanically.

MAINTENANCE

Sika® recommends that you consult the document: **Sikafloor® Systems_Protection, Cleaning and Maintenance Guidelines.**

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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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