BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET

Sikafloor®-265

FLEXIBLE EPOXY CRACK-ISOLATION AND WATERPROOFING MEMBRANE

PRODUCT DESCRIPTION

Sikafloor®-265 is a two-component, robust, high solids, low VOC, low odour, flexible clear epoxy designed for use as a seamless, crack-isolation and waterproofing membrane for floor and wall applications. Sikafloor®-265 has been designed for application on slab-on-grade and suspended concrete substrates beneath Sikafloor® or Sikagard® epoxy systems.

WHERE TO USE

Sikafloor®-265 may only be used by experienced professionals.

- Typically installed as a slab-on-grade crack-isolation membrane beneath Sikafloor® Terrazzo.
- Sikafloor®-265 provides a flexable layer to separate ridged Sikafloor® or Sikagard® epoxy flooring systems from hairline cracks and minor substrate movement.
- Under raised access floors that contain liquid lines, where an elastomeric waterproof membrane protection is required to protect computer rooms and similarly sensitive facilities below.

CHARACTERISTICS / ADVANTAGES

- Excellent protection for new and existing concrete
- Durable, impermeable, and seamless
- Low odour / low VOC content allows application in occupied buildings
- Flexible, bridges hairline cracks and minor substrate movement
- Convenient, easy mix ratio A:B = 1:1 by volume

ENVIRONMENTAL INFORMATION

- Conformity with LEED® v4 MR Credit (Option 1): Building Product Disclosure and Optimization – Sourcing of Raw Materials
- Conformity with LEED® v4 IEQ Credit: Low-Emitting Materials

APPROVALS / CERTIFICATES

- Meets the requirements of CFIA and USDA for use in food plants.
- Certified to ANSI 118.10 waterproofing membrane at an applied thickness of 40 mils.

PRODUCT INFORMATION

CSC MasterFormat®	**07 14 00 (09 66 23.16) | FLUID-APPLIED WATERPROOFING**	
Packaging	Component A:	18.9 L (5.0 US gal) pail
	Component B:	18.9 L (5.0 US gal) pail
	Components A+B:	37.8 L (10 US gal.) unit
Shelf Life	2 years in original, unopened packaging	
Storage Conditions	Store dry between 5 °C and 32 °C (41 °F and 89 °F)	

Appearance / Colour	Clear
Volatile organic compound (VOC) content	~16 g/L

TECHNICAL INFORMATION

Shore D Hardness	~40	(ASTM D2240)
Resistance to Impact	> 18.1 N-m (> 160 in/lb)	(ASTM D2794)
Tensile Strength	~7.2 MPa (~1 050 psi)	(ASTM D638)
Modulus of Elasticity in Tension	~1697 MPa (~246 100 psi)	(ASTM D638)
Elongation at Break	~125 %	(ASTM D638)
Pull-Off Strength	~2.5 MPa (~363 psi) (100 % concrete failure)	(ASTM D7234)
Tear Strength	~40.8 kg (~90 lb)	(ASTM D1938)
Thermal Compatibility	Pass / 24 hours -21 °C to 25 °C (-5.8 °F to 77 °F) no cracking	(ASTM C884)
Chemical Resistance	Consult Sika Canada	
Resistance to Fire	self-extinguishing	(ASTM D635)

APPLICATION INFORMATION

Mixing Ratio	A:B = 1:1 by volume
Consumption	**Primer:** Sikafloor®156 (where required; see Priming) ~4 m²/L (~160 ft²/US gal) at 10 mil w.f.t. per coat **Membrane:** Sikafloor®-265 ~2 m²/L (~80 ft²/US gal.) at 20 mil d.f.t. per coat. (Minimum 2 coats recommended at 40 mil total d.f.t.) Actual coverage rates and material consumption will depend upon porosity and profile of substrates. Allowance must be also made for variation in film thickness or number of coats required to achieve complete coverage of surfaces. Test sections are recommended to establish correct coverage.
Product Temperature	Condition product between 18 °C to 24 °C (65 °F to 75 °F)
Ambient Air Temperature	Minimum: 10 °C (50 °F) / Maximum: 30 °C (86 °F)
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). Mixing and application attempted at material, ambient and/or substrate temperature conditions less than 18 °C (65 °F) will result in a decrease in product workability and slower cure rates.

Substrate Moisture Content

Moisture content of concrete substrate must be ≤ 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). If moisture content of concrete substrate exceeds 4 % (pbw – part by weight) as measured with Tramex® CME/CMExpert type concrete moisture meter, use Sikafloor®-1610 or Sikafloor®-81 EpoCem®CA or Sikafloor® 22NA or 24 NA PurCem®.
When relative humidity tests for concrete substrate are conducted per ASTM F2170 for project specific requirements, values must be ≤ 85 %. If values exceed 85 % according to ASTM F2170, use Sikafloor®-1610 or Sikafloor®-81 EpoCem®CA or Sikafloor® 22NA or 24 NA PurCem®. ASTM F2170 testing is not a substitute for measuring substrate moisture content with a Tramex® CME/CMExpert type concrete moisture meter as described above.
Do not apply while ambient and substrate temperatures are rising, as pinholes may occur. Ensure there is no vapour drive at the time of application. Refer to ASTM D4263, may be used for a visual indication of vapour drive.

Pot Life

Material Temperature	Time
10 °C (50 °F)	~60 minutes
20 °C (68 °F)	~45 minutes
30 °C (86 °F)	~30 minutes

Curing Time

Substrate Temperature	Foot Traffic	Light Traffic	Full Cure
10 °C (50 °F)	~24 hours	~3 days	~10 days
20 °C (68 °F)	~12 hours	~2 days	~7 days
30 °C (86 °F)	~8 hours	~1 day	~4 days

Curing times will vary according to air and substrate temperatures and relative humidity.
Freshly applied material should be protected from dampness, condensation and water for at least 24 hours.
Mechanical, chemical and physical properties will be fully achieved at full cure.

Waiting Time / Overcoating

Before applying a second coat of Sikafloor®-265 allow:

Substrate Temperature	Minimum	Maximum
10 °C (50 °F)	~24 hours	~3 days
20 °C (68 °F)	~12 hours	~2 days
30 °C (86 °F)	~8 hours	~1 day

Before applying Sikafloor® Epoxy or Polyurethane on Sikafloor®-265 allow:

Substrate Temperature	Minimum	Maximum
10 °C (50 °F)	~24 hours	~3 days
20 °C (68 °F)	~12 hours	~2 days
30 °C (86 °F)	~8 hours	~1 day

Note: If the Waiting/ Recoat time has passed the previous coat must be lightly sanded, to remove all gloss; vacuum cleaning and solvent wiping will be necessary to remove all traces of dust. The surface should be a uniform dullness, with no gloss present after clean-up and before applying 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

- 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.)
- Do not apply Sikafloor®-265to 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 polymer-modified cement mortars (PCC) that may expand when sealed with an impervious resin.
- This product is not designed for negative side waterproofing.
- Typically, not recommended for exterior slabs on grade where freeze/thaw conditions may exist.
- Will discolour over time when exposed to sunlight (UV) and under certain artificial lighting conditions UV resistant, light stable topcoats are available where ultimate clarity or colour retention is required.
- Sikafloor®-265 does not possess measurable chemical resistance values in itself and requires overcoating with a Sikafloor® or Sikagard® system.
- Do not apply to substrates exposed to extreme thermal shock.
- Direct-fired gas or kerosene heaters produce by-products that can have adverse effects on the curing product. To avoid this occurrence, heaters must be exhausted to the exterior of the building to avoid defects such as amine blush, whitening, loss of adhesion or other surface deficiencies.
- Beware of air flow and changes in air flow. Introduction of dust, debris, and particles, etc. may result in surface imperfections and other defects.

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, sound and dry. 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 good bond. Prepare the surface by any appropriate mechanical means, in order to achieve an open textured profile equivalent to ICRI / CSP 3 - 5. The compressive strength of the concrete substrate should be at least 25 MPa (3 625 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 Canada for recommendations.

MIXING

Mix Ratio: A:B = 1:1 by volume
Do not mix Sikafloor® materials by hand: mechanical mix only. Do not thin this product. Addition of thinners (e.g., solvent or water) will retard the cure, reduce the ultimate properties of this product, and void any applicable Sika warranty.

NOTE: Due to the difference in viscosity between Component “A” Resin and Component “B” Hardener, care must be taken to ensure that both components are thoroughly mixed-together to avoid weak or partially cured spots in the coating.

Pre-stir Components A and B separately, making sure all solids, are evenly distributed and uniform consistencies are achieved within each individual Component. 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. Keep the mixing paddle in the mix to minimize entrapped 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. Upon completion of mixing, Sikafloor®-265 should be uniform in colour and consistency. Do not mix more material than can be applied within the working time limits (i.e., Pot Life) at the actual field temperature.

APPLICATION

Primer:
Priming is not typically required when two (2) coats of Sikafloor®-265 are being applied to a total d.f.t. of 40 mil, (i.e., at 20 mil d.f.t. per coat).
Priming is necessary if a single coat application of Sikafloor®-265 is being applied at 40 mil d.f.t. Prime with either Sikafloor®-156CA, Sikafloor®-165 FS, or Sikafloor®-1610, (Refer to Product Data Sheets for full information).
Apply primer by squeegee at a rate of 4 m^2/L (160 ft^2/US gal.) over dry, mechanically-prepared concrete to achieve a uniform minimum thickness of 10 mil w.f.t. Allow the primer to cure (varies with temperature and humidity) until tack-free before applying subsequent membrane coats. Ensure that the primer is pore- and pinhole-free and provides uniform and complete coverage over the entire substrate. Refer to the individual most current and respective Product Data Sheet for specific and detailed information.
Membrane:
Pour a ribbon of material on the prepared and primed surface, then spread using a serrated squeegee or notched trowel. Back rolling is typically done immediately with a 10 mm (3/8 in) short nap, solvent-resistant roller cover to help the applied material level; over-rolling and late back rolling may cause bubbling and leave roller marks.
IMPORTANT: Apply subsequent coats of Sikafloor®-265 or other Sikafloor® products within 48 hours under normal curing conditions at 23 °C (75 °F), 50 % R.H. If the Waiting/ Recoat time has passed the previous coat must be lightly sanded, to remove all gloss; vacuum cleaning and solvent wiping will be necessary to remove all traces of dust. The surface should be a uniform dullness, with no gloss present after clean-up and before applying the next coat.

CLEAN UP

Clean all tools and equipment immediately with Sika® Epoxy Cleaner. Once cured, product can only be removed mechanically.

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

Sika Canada Inc.
Head Office
601, avenue Delmar
Pointe-Claire, Quebec
H9R 4A9
1-800-933-SIKA
www.sika.ca

Other locations
Boisbriand (Quebec)
Brantford; Cambridge;
Sudbury; Toronto (Ontario)
Edmonton (Alberta)
Surrey (British Columbia)