



# PRODUCT DATA SHEET

## Sikafloor®-261 CA

SMOOTH FINISH COATING (20 - 30 MIL)

### PRODUCT DESCRIPTION

Sikafloor®-261 CA is a two-component, solid colour, high solids, silicone-free, low-viscosity, self-priming, glossy epoxy resin available in an unlimited colour range. Typically installed as a seamless, high build, smooth coating for light to medium duty traffic areas. This general service epoxy coating demonstrates good mechanical and chemical resistance. Final surface appearance options include: unlimited colour selection and integral cove base. Sikafloor®-261 CA is also used as a resin component (primer, binder and top coat) for high performance Sikafloor® Morritex® Systems.

### WHERE TO USE

Sikafloor®-261 CA may only be used by experienced professionals.

- Clean rooms and sanitary areas
- Commercial and industrial facilities
- Food service areas
- Institutional and recreational facilities
- Light to medium duty manufacturing areas
- Processing and warehousing
- Retail stores
- Theaters
- Aircraft hangars

### PRODUCT INFORMATION

CSC MasterFormat®

09 67 00 | FLUID-APPLIED FLOORING

Packaging

10 L and 30 L (2.6 and 7.9 US gal.) units

### CHARACTERISTICS / ADVANTAGES

- Good mechanical and chemical resistance
- Glossy aesthetic finish
- Durable, impermeable and seamless
- Easily cleaned and maintained
- Does not support growth of bacteria or fungus
- Neutral odour
- Unlimited colours, no minimum required
- Achieves high performance ratings according to ASTM G21 resistance to fungi and ASTM D3273 resistance to mold growth.

### ENVIRONMENTAL INFORMATION

- Conformity with LEED®v4 MR Credit (Option 1): Building Product Disclosure and Optimization – Environmental Product Declarations
- Conformity with LEED®v4 EQ Credit: Low-Emitting Materials
- Conformity with LEED®v4 MR Credit (Option 2): Building Product Disclosure and Optimization - Material Ingredients
- Conformity with LEED®v4 MR Credit (Option 2): Building Product Disclosure and Optimization - Sourcing of Raw Materials

### APPROVALS / CERTIFICATES

- Meets the requirements of CFIA and USDA for use in food plants.

<b>Shelf Life</b>	2 years when stored in original, unopened packaging.
<b>Storage Conditions</b>	Store dry at temperatures between 5 °C to 32 °C (41 °F to 89 °F).
<b>Appearance / Colour</b>	RAL 7038 Agate Grey RAL 7030 Stone Grey RAL 7046 Telegrey 2 RAL 7012 Basalt Grey Custom colours available upon request. Refer to current price list for availability.
<b>Viscosity</b>	~550 cps (A+B Mixed)
<b>Volatile organic compound (VOC) content</b>	< 50 g/L

## TECHNICAL INFORMATION

<b>Shore D Hardness</b>	~76	(ASTM D2240)
<b>Abrasion Resistance</b>	~0.11 g (~0.0038 oz) CS17/1000 cycles/1000 g (2.2 lb)	(ASTM D4060)
<b>Resistance to Impact</b>	~5.88 joules (~4.33 ft lb)	(ASTM D2794)
<b>Indentation</b>	~8.82 % (returns to profile)	(MIL-PRF-24613)
<b>Compressive Strength</b>	~56 MPa (~8122 psi)	(ASTM D695)
<b>Tensile Strength</b>	~7.4 MPa (~1073 psi)	(ASTM D638)
<b>Elongation at Break</b>	~22 %	(ASTM D638)
<b>Pull-Off Strength</b>	> 2.5 MPa (> 363 psi) (substrate failure)	(ASTM D7234)
<b>Coefficient of Thermal Expansion</b>	~1.27 x 10 <sup>-4</sup> mm/mm/°C (~0.70 x 10 <sup>-4</sup> in/in/°F)	(ASTM D696)
<b>Coefficient of Friction</b>	~0.32 Wet (smooth high gloss) ~0.93 Dry (smooth high gloss)	(ANSI A137.1 / ANSI A326.3) (DCOF - BOT 3000e)
<b>Service Temperature</b>	Minimum 0 °C (32 °F) Maximum 50 °C (122 °F)	
<b>Thermal Compatibility</b>	Passes	(ASTM C884)
<b>Water Absorption</b>	~0.3 %	(ASTM D570)
<b>Chemical Resistance</b>	Consult Sika Canada	
<b>Microbiological Resistance</b>	Rated 1 - resistance to fungi (traces growth) Rated 10 - resistance to mold growth (highest resistance) (Special order grade)	(ASTM G21) (ASTM D3273)
<b>Resistance to Fire</b>	0 (FSR) Flame Spread Rating 15 (SDC) Smoke Developed Classification	(CAN/ULC S102.2)

## APPLICATION INFORMATION

<b>Mixing Ratio</b>	A:B = 2:1 by volume
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<b>Consumption</b>	Prime coat	5 m <sup>2</sup> /L - 8 m <sup>2</sup> /L (200 ft <sup>2</sup> /US gal.- 325 ft <sup>2</sup> /US gal.) at 5 mil - 8 mil w.f.t.		
	Wear coat	1.6 m <sup>2</sup> /L - 3.3 m <sup>2</sup> /L (65 ft <sup>2</sup> /US gal.- 135 ft <sup>2</sup> /US gal.) at 12 mil - 25 mil w.f.t.		
	Refresher coat	Apply at the same rate as wear coat		
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 opacity with light (i.e. white) or bright colours (i.e. reds and yellows) on dark substrates. Test sections are recommended to establish correct coverage.				
<b>Product Temperature</b>	Condition product between 18 °C to 30 °C (65 °F to 86 °F) before using.			
<b>Ambient Air Temperature</b>	Minimum 10 °C (50 °F) Maximum 30 °C (85 °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.			
<b>Relative Air Humidity</b>	Maximum 85 % (during application and curing)			
<b>Dew Point</b>	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.			
<b>Substrate Temperature</b>	Minimum 10 °C (50 °F) Maximum 30 °C (85 °F) 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.			
<b>Substrate Moisture Content</b>	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 (preparation to ICRI / CSP 3 - 4). Do not apply to concrete substrate with moisture levels exceeding 4 % mass (pbw – part by weight) as measured with Tramex® CME / CMExpert type concrete moisture meter. If moisture content of concrete substrate exceeds 4 % by mass (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 24NA 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 24NA 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.			
<b>Pot Life</b>	250 g (8.8 oz)	10 °C (50 °F)	20 °C ( 68 °F)	30 °C (86 °F)
	Open time in pot	~60 minutes	~40 minutes	~15 minutes
	Open time on substrate	~80 minutes	~50 minutes	~35 minutes

## Curing Time

	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)
Foot traffic	~2 days	~1 day	~18 hours
Light traffic	~4 days	~2 days	~2 days
Full Cure	~10 days	~7 days	~5 days

Curing times will vary according to air and substrate temperature and relative humidity.

Protect from dampness, condensation and water contact during the initial 24 hour cure period.

Mechanical, chemical and physical properties will be fully achieved at full cure.

## Waiting Time / Overcoating

	10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)
Minimum	~30 hours	~8 hours	~6 hours
Maximum	~72 hours	~48 hours	~24 hours

**Note:** If the Waiting / Overcoating 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® 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.
- 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.
- Do not apply to substrates exposed to extreme thermal shock.
- 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 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.
- Published Dynamic Coefficient of Friction (DCOF) wet and dry test results are approximate values based on laboratory test samples produced in a controlled environment following the application instructions published on the product data sheet. Resin flooring products are hand-applied finishes subject to minor variations in surface texture due to influences partly beyond Sika Canada's control. Substrate profile, environmental conditions, variable regional aggregate size, shape and gradation, aggregate distribution, uniformity of applied resin mil thickness, and application technique can all affect the final DCOF test results achieved. Adequate provision should be made by the client throughout the selection and installation process to ensure the finished surface texture meets the end user's traction requirements.

## 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.

### Product Data Sheet

Sikafloor®-261 CA

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**CONSTRUIRE LA CONFIANCE**



## APPLICATION INSTRUCTIONS

### SURFACE PREPARATION

The concrete surface must be clean and sound. Remove any dust, laitance, grease, oil, dirt, curing agents, impregnations, wax, foreign matter, coatings and detritus from the surface by appropriate mechanical means, in order to achieve a surface profile equivalent to ICRI / CSP 3 - 4.

The compressive strength of the concrete substrate should be at least 25 MPa (3625 psi) at 28 days and at least 1.5 MPa (218 psi) in tension at the time of application of Sikafloor®-261 CA.

### MIXING

#### Mix Ratio: A:B 2:1 by volume

Do not hand mix Sikafloor® materials. Mechanically mix only.

Pre-mix each component separately. Empty component B in the correct mix ratio to component A. Mix the combined components for at least three (3) minutes, using a low-speed drill (300 - 450 rpm) to minimize entrapping air. Use an Exomixer® or Jiffy type mixing paddle (recommended model) suited to the volume of the mixing container. 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. When completely mixed, Sikafloor®-261 CA should be uniform in colour and consistency.

Mix only that quantity which can be used within its pot life.

### APPLICATION

**Prime Coat:** Apply the Sikafloor®-261 CA as a prime coat onto the substrate using a brush, roller or squeegee, at a uniform coverage without puddling.

**Wear Coat:** Once the prime coat is tack free, apply the wear coat using a squeegee or roller and backroll to achieve even coverage.

### CLEAN UP

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

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Brantford; Cambridge;  
Sudbury; Toronto (Ontario)  
Edmonton (Alberta)  
Surrey (British Columbia)

## MAINTENANCE

Please refer to Sikafloor® Systems - Protection, Cleaning and Maintenance Guidelines product data sheet.

## 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](http://www.sika.ca)

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#### Product Data Sheet

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