BUILDING TRUST
CONSTRUIRE LA CONFIANCE

PRODUCT DATA SHEET

Sikafloor®-261 CA Thixo

THIXO COATING (ORANGE PEEL TEXTURE) (20–24 MIL)

PRODUCT DESCRIPTION

Sikafloor®-261 CA Thixo is a two-component, solid colour, high solids, silicone-free, heavy thixotropic viscosity, glossy epoxy resin available in an unlimited colour range. Typically installed as a seamless, high build, orange peel-textured 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, integral cove base, gloss, satin or matte surface sheen. Sikafloor®-261 CA Thixo is also used as a top coat for high performance Sikafloor® Morritex Systems.

WHERE TO USE

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

- Wet and dry process areas
- Commercial and institutional buildings
- Health care facilities
- Laboratories
- Moderate mechanical and chemical resistance areas
- Recreational centers
- Showroom areas

CHARACTERISTICS / ADVANTAGES

- Moderate mechanical and chemical resistance
- Aesthetic textured finish
- Hides surface imperfections
- Durable, impermeable and seamless
- Easily cleaned, maintained and a more sanitary work environment
- Neutral odour
- Unlimited colours, no minimum required
- Does not support growth of bacteria or fungus
- Achieves high performance ratings according to ASTM G21 resistance to fungi (rated 1 [traces of growth]) and ASTM D3273 resistance to mold growth (rated 10 (highest resistance]) (special order grade)

ENVIRONMENTAL INFORMATION

- Conformity with LEED® v4 EQc 2: Low-Emitting Materials

APPROVALS / CERTIFICATES

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

PRODUCT INFORMATION

CSC MasterFormat®	**09 67 00 | FLUID-APPLIED FLOORING**
Packaging	10 L (2.6 US gal.) unit (Sikafloor®-261 CA Thixo Coating consists of a special component B)
Shelf Life	2 years in original unopened packaging.

Storage Conditions	Store dry at temperatures between 5 °C to 32 °C (41 °F to 89 °F). Condition product at temperatures between 18 °C to 30 °C (65 °F to 86 °F) before using.
Appearance / Colour	Refer to the Industrial Flooring and Coatings colour card. RAL 7038 Agate Grey RAL 7030 Stone Grey RAL 1001 Beige RAL 1018 Zinc Yellow RAL 3010 Brick RAL 5007 Brilliant Blue RAL 6028 Pine Green RAL 7012 Basalt Grey RAL 9003 Signal White Custom colours available upon request. Refer to current price list for availability.
Volatile organic compound (VOC) content	< 50 g/L

TECHNICAL INFORMATION

Shore D Hardness	~76	(ASTM D2240)
Abrasion Resistance	~0.11 g (~0.0038 oz) CS17/1000 cycles/1000 g (2.2 lb)	(ASTM D4060)
Resistance to Impact	~5.42 joules (~3.99 ft lb)	(ASTM D2794)
Indentation	~8 %	(MIL-PRF-24613)
Compressive Strength	~56 MPa (~8122 psi)	(ASTM D695)
Tensile Strength	~7.4 MPa (~1073 psi)	(ASTM D638)
Elongation at Break	~16 % (elongation)	(ASTM D638)
Pull-Off Strength	> 2.5 MPa (> 363 psi) (substrate failure)	(ASTM D7234)
Service Temperature	Minimum 0 °C (32 °F) Maximum 50 °C (122 °F)	
Temperature Resistance	**Flammability:** ~35 mm (~1.37 in)	(ASTM D635)
Thermal Compatibility	Passes **Coefficient of Thermal Expansion** ~1.27 x 10^{-4} mm/mm/°C (~0.70 x 10^{-4} in/in/°F)	(ASTM C884) (ASTM D696)
Water Absorption	~0.3 %	(ASTM C413)
Chemical Resistance	Consult Sika Canada	

APPLICATION INFORMATION

Mixing Ratio	A:B = 2:1 by volume	
Consumption	Prime coat	Sikafloor®-261 CA (regular) 5 m²/L (200 ft²/US gal.) at 8 mil w.f.t.
	Thixo wear coat	Sikafloor®-261 CA Thixo (special component B) 2.5 m²/L to 3.3 m²/L (100 ft²/US gal. to 135 ft²/US gal.) at 12 to 16 mil w.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 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.			
Product Temperature	Condition product at temperatures between 18 °C to 30 °C (65 °F to 86 °F) before using.			
Ambient Air Temperature	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.			
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.			
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.			
Pot Life	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)
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
Applied Product Ready for Use		10 °C (50 °F)	20 °C (68 °F)	30 °C (86 °F)
	Full Cure / Chemical Exposure	~10 (days)	~7 (days)	~5 (days)

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

- Sikafloor®-261 CA Thixo is best installed by skilled and experienced applicators. Consult Sika Canada for advice and recommendations.
- 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.)
- 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.
- ASTM F2170 testing is not a substitute for measuring substrate moisture content with a Tramex® CME / CMExpert type concrete moisture meter as described above.

- 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.
- 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.
- Freshly applied material should be protected from dampness, condensation and water for at least 24 hours.
- Will discolour over time when exposed to sunlight (UV) and under certain artificial lighting conditions.
- 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.
- 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 resin. 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.
- The influence of colour selection should be allowed for in material consumption/coverage. Light or bright colours may require higher wet film thicknesses or additional coats to achieve desired opacity. Consult Sika Canada for guidance at time of colour selection.
- Surface may discolour in areas exposed to ultraviolet light, use Sikafloor® Duochem-942 (Clear or Coloured) as a seal coat if required or contact Sika Canada prior to specification or application for advice.
- The thixotropic viscosity of this material reduces the product's ability to release air entrapped during the mixing operation, significantly increasing potential for the formation of micro pinholes.
- Not suitable for use in clean rooms, highly sanitized environments or where hygienic, pore-free conditions are required.

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.

MIXING

Mixing 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®* 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®-261CA prime coat (regular) and thixo wear coat (special Part B) should be uniform in colour and consistency.
Mix only that quantity which can be used within its pot life.

APPLICATION

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

Thixo Wear Coat: Once prime coat is tack-free, apply the thixo wear coat using a squeegee or roller and backroll to achieve even coverage. Finish with a textured roller to achieve the desired surface texture. The texture peak through height will vary depending on the mil thickness and type of roller used.

CLEAN UP

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

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

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)