BUILDING TRUST CONSTRUIRE LA CONFIANCE



PRODUCT DATA SHEET

Edition 12.2020/v1 CSC Master Format[™] 09 67 00 FLUID-APPLIED FLOORING

Sikafloor[®] Morritex[®] Self-Levelling Smooth System SELF-LEVELLING SMOOTH SURFACING OF 2 - 4 MM (80 - 160 MILS)

Description	Sikafloor [®] Morritex [®] Self-Levelling Smooth System is a solid colour, high gloss, ultra smooth, resin rich, aggregate extended, seamless, epoxy based floor coating. The incorporation of durable, fine aggregate into the matrix during mixing significantly increases the liquid resin volume during application without sacrificing physical properties. This reduces the overall neat resin cost associated with thicker self-levelling coatings, maximizes resin economy allowing thicker applications that ultimately extend the coatings service life against aggressive wear. Typically installed in light to heavy duty traffic areas, this general service epoxy coating demonstrates good chemical resistance as well as high abrasion and impact resistance. Sikafloor [®] Morritex [®] Self-Levelling Smooth System produces an aesthetic, ultra smooth surface texture that is easy to clean and maintain. Final surface appearance options include: unlimited colour selection, integral cove base, gloss, satin or matte surface sheen.						
Where to Use	Aircraft hangars.Cafeterias.						
	 Clean rooms. 						
	Convention centers.						
	Institutional and recreatio	nal facilities.					
	 Laboratories. 						
	Laundry rooms.						
	 Light to heavy duty manufacturing facilities. 						
	 Packaging areas. 						
	Pharmaceutical facilities. Self-Levelling Smooth Surfa						
	Theaters and television studios.						
Advantages	 Good mechanical resistant 	e.					
	 Good chemical resistance. 						
	 Superior aesthetic finish. 						
		 Durable, impermeable and seamless. Easily cleaned and maintained, resulting in a more sanitary work environment. 					
	 Does not support growth of bacteria or fungus. Low VOC content, neutral odour. 						
	 Unlimited colours, no mini 						
		e ratings according to ASTM G21 resistance to fungi and ASTM D3273 resistance to mold					
	growth (special order grad						
	 Conformity with LEED[®] v4 	MRc 2 (Option 1): Building Product Disclosure and Optimization – Environmental Product					
	Declarations.						
	•	f CFIA and USDA for use in food plants.					
	Technical Data						
	Packaging Colour	Sikafloor®-261 ^{cA} 10 L and 30 L (2.6 and 7.9 US gal.) units Refer to the Industrial Flooring and Coatings colour card.					
	colour	RAL 7038 Agate Grey RAL 5007 Brilliant Blue					
		RAL 7030 Stone Grey RAL 6028 Pine Green					
	RAL 1001 BeigeRAL 7012 Basalt GreyRAL 1018 Zinc YellowRAL 9003 Signal WhiteRAL 3010 BrickRAL 9003 Signal White						
	Yield						
	Prime coat Self-levelling coat	Sikafloor®-261 ^{ca} 5 m²/L (200 ft²/US gal.) (8 mils w.f.t.) Sikafloor®-261 ^{ca} 0.25 - 0.57 m²/L (10 - 23 ft²/US gal.) (80 - 160 mils w.f.t.)					
	Sikanoor ² -201 ² $0.25 - 0.57$ m ² /L (10 - 23 m ² /U Sgal.) (80 - 160 mils w.r.t.) 10 L (A+B) unit + 10 L silica sand # 70 = 16 L						
	Actual coverage rates and material consumption will depend upon porosity and profile of substrates. Allowance m for variation in film thickness or number of coats required to achieve opacity with light (i.e. white) or bright colo yellows) on dark substrates. Test sections are recommended to establish correct coverage.						

	Shelf Life 2	vears in original unope	ened packaging	. Store dry between 5 and 32 °C (41 and 89 °F). Condition at 18 t	o 30 °C		
	((65 to 86 °F) before using.					
	Mix Ratio A:B = 2:1 by volume (primer coat) A:B:C = 2:1:3 by volume (self-levelling coat)						
	Service Temperature	/lin.		0 °C (32 °F)			
		/lax. hort term exposure		50 °C (122 °F) 100 °C (212 °F)			
			20 °C (68 °F)	30 °C (86 °F)			
	Open Time on Substrate (min) Waiting Time Between Coats (hrs) (min./		40 8/48	~ 30 ~ 6/24			
	max.)	50,72	0/40	0/24			
	Curing Time (days) Foot traffic	~ 2 ~	· 1	~ 18 hrs			
	Light traffic		· 2	~ 2			
	Normal traffic/Chem. exp.		· 7	~ 5			
	Properties at 23 °C (73 °F) and 50 % R.H.						
	Specific Gravity ASTM D1475 kg/L (lb/US gal.)	A: ~ 1.52 (1 B: ~ 1.01 (8					
		A+B: ~ 1.40 (1	•				
	Viscosity	A+B: ~ 550 cp	S				
	Pot Life, 250 g (8.8 oz) Compressive Strength ASTM C579	~ 40 min ~ 56 MPa (8122 psi)					
	% Elongation ~ 6.03%						
	Bond Strength CSA/CAN23.2-6B Thermal Compatibility ASTM C884	> 2 MPa (290 psi) (sul Passes	bstrate failure)				
	Hardness, Shore D ASTM D2240	~ 76					
	Indentation MIL-PRF-24613	~ 8.0% ~ 2.71 joules (1.99 ft	16.)				
	Impact Resistance ASTM D2794 Abrasion Resistance ASTM D4060						
	CS17I/1000 cycles/1000 g (2.2 lb) ~ 0.11 g (0.0038 oz)						
	Dynamic Coefficient of Friction (DCOF) ANSI A137.1 / ANSI A326.3 /BOT 3000e ~ 0.26 (wet)						
	Flammability ASTM D635	~ 35 mm (1.37 in)					
	Water Absorption ASTM C413 ~ 0.3% Resistance to Eurori Growth ASTM C31 Restor 1 (traces of growth)						
	Resistance to Fungi Growth ASTM G21 Rated 1 (traces of growth) Resistance to Mold Growth ASTM D3273 Rated 10 (highest resistance)						
	VOC Content	Binder: < 50 g/L - Agg					
	Chemical Resistance Product properties are typically averages, obtaine	Consult Sika Canada d under laboratory condition	ns. Reasonable va	ariations can be expected on-site due to local factors, including environment	,		
	preparation, application, curing and test methods						
HOW TO USE							
Surface Preparation	The concrete surface must be clean and sound. Remove any dust, laitance, grease, oil, dirt, curing agents, impregnations,						
Freparation	wax, foreign matters, coatings and detritus from the surface by appropriate mechanical means, in order to achieve a profile equivalent to ICRI-CSP 3-5. 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							
IVIIAIIIg	Prime Coat - Top Coat Mix Ratio: Components A:B 2:1 by volume						
	Pre-stir 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 size of the mixing container. Mix only that quantity						
	which can be used within its pot life.						
	Self-Levelling Broadcast Coat:						
	Self-Levelling Broadcast Coat:						
	Self-Levelling Broadcast Coat: Mix Ratio: Components A:B:C 2:1:	3 by volume					
	Mix Ratio: Components A:B:C 2:1:	,	nent B in th	e correct mix ratio to component A. Mix the con	bined		
	Mix Ratio: Components A:B:C 2:1: Pre-mix each component separat	ely. Empty compor		ne correct mix ratio to component A. Mix the con drill (300 - 450 rpm) to minimize entrapping air. l			
	Mix Ratio: Components A:B:C 2:1: Pre-mix each component separate components for at least three (3) <i>Exomixer®</i> type mixing paddle (reference)	ely. Empty compor minutes, using a ecommended moc	low-speed del) suited	drill (300 - 450 rpm) to minimize entrapping air. I to the volume of the mixing container. Add silica	Jse an a sand		
	Mix Ratio: Components A:B:C 2:1: Pre-mix each component separate components for at least three (3) <i>Exomixer®</i> type mixing paddle (ref (component C) to the blended component C) to the blended compon	ely. Empty compor minutes, using a ecommended moc mponents A and B	low-speed del) suited . Mix for th	drill (300 - 450 rpm) to minimize entrapping air. I to the volume of the mixing container. Add silica ree (3) minutes once all ingredients are combined	Jse an a sand , using		
	Mix Ratio: Components A:B:C 2:1: Pre-mix each component separate components for at least three (3) <i>Exomixer®</i> type mixing paddle (ref (component C) to the blended con the above mentioned mixer. During	ely. Empty compor minutes, using a ecommended moo mponents A and B ig the mixing opera	low-speed del) suited . Mix for th ation, scrap	drill (300 - 450 rpm) to minimize entrapping air. It to the volume of the mixing container. Add silica ree (3) minutes once all ingredients are combined e down the sides and bottom of the container with	Jse an a sand , using n a flat		
	Mix Ratio: Components A:B:C 2:1: Pre-mix each component separate components for at least three (3) <i>Exomixer®</i> type mixing paddle (ref (component C) to the blended con the above mentioned mixer. Durin or straight edge trowel at least o	ely. Empty compor minutes, using a ecommended moo mponents A and B og the mixing opera nce to ensure con	low-speed del) suited . Mix for th ation, scrap nplete mixin	drill (300 - 450 rpm) to minimize entrapping air. It to the volume of the mixing container. Add silica ree (3) minutes once all ingredients are combined e down the sides and bottom of the container with ng. When completely mixed, Sikafloor®-261 ^{CA} sho	Use an a sand , using n a flat		
Application	Mix Ratio: Components A:B:C 2:1: Pre-mix each component separatic components for at least three (3) <i>Exomixer®</i> type mixing paddle (red (component C) to the blended con the above mentioned mixer. Durin or straight edge trowel at least o uniform in colour and consistency	ely. Empty compor minutes, using a ecommended moo mponents A and B g the mixing opera nce to ensure con . Mix only that qua	low-speed del) suited . Mix for th ation, scrap nplete mixin antity which	drill (300 - 450 rpm) to minimize entrapping air. Ut to the volume of the mixing container. Add silica ree (3) minutes once all ingredients are combined e down the sides and bottom of the container with ng. When completely mixed, Sikafloor®-261 ^{cA} sho to can be used within its pot life.	Use an a sand , using n a flat		
Application	Mix Ratio: Components A:B:C 2:1: Pre-mix each component separate components for at least three (3) <i>Exomixer®</i> type mixing paddle (ref (component C) to the blended con the above mentioned mixer. Durin or straight edge trowel at least o	ely. Empty compor minutes, using a ecommended moo mponents A and B g the mixing opera nce to ensure con . Mix only that qua	low-speed del) suited . Mix for th ation, scrap nplete mixin antity which	drill (300 - 450 rpm) to minimize entrapping air. Ut to the volume of the mixing container. Add silica ree (3) minutes once all ingredients are combined e down the sides and bottom of the container with ng. When completely mixed, Sikafloor®-261 ^{cA} sho to can be used within its pot life.	Jse an a sand , using n a flat		
Application	Mix Ratio: Components A:B:C 2:1: Pre-mix each component separatic components for at least three (3) <i>Exomixer®</i> type mixing paddle (ri (component C) to the blended count the above mentioned mixer. During or straight edge trowel at least of uniform in colour and consistency Prime Coat: Apply the prime coatt Self-Levelling Coat: Once the prime	ely. Empty compor minutes, using a ecommended moo mponents A and B ig the mixing opera nce to ensure con . Mix only that qua using a squeegee e coat is tack-free,	low-speed del) suited . Mix for th ation, scrap nplete mixin antity which and backrol apply the s	drill (300 - 450 rpm) to minimize entrapping air. U to the volume of the mixing container. Add silica ree (3) minutes once all ingredients are combined e down the sides and bottom of the container with ng. When completely mixed, Sikafloor®-261 ^{CA} sho can be used within its pot life. II. Avoid puddling. elf-levelling coat onto the substrate immediately to	Jse an a sand , using n a flat uld be		
Application Clean Up	Mix Ratio: Components A:B:C 2:1: Pre-mix each component separatic components for at least three (3) <i>Exomixer®</i> type mixing paddle (row (component C) to the blended count the above mentioned mixer. During or straight edge trowel at least of uniform in colour and consistency Prime Coat: Apply the prime coatt Self-Levelling Coat: Once the prime aggregate segregation using a not	ely. Empty compor minutes, using a ecommended moo mponents A and B ig the mixing opera nce to ensure con . Mix only that qua using a squeegee e coat is tack-free, ched squeegee or	low-speed del) suited . Mix for th ation, scrap nplete mixin antity which and backrol apply the s trowel. Lev	drill (300 - 450 rpm) to minimize entrapping air. U to the volume of the mixing container. Add silica ree (3) minutes once all ingredients are combined e down the sides and bottom of the container with ng. When completely mixed, Sikafloor®-261 ^{cA} sho to can be used within its pot life.	Jse an a sand , using n a flat uld be		



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Sikafloor® Morritex® Self-Levelling Smooth System CSC Master Format™ 09 67 00 FLUID-APPLIED FLOORING 2/3

Limitations	Sikafloor [®] Morritex [®] SL 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 							
				surface according to this product				
	data sheet (preparation to ICRI / CSP 3 - 5). 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 \leq 85 %. If values exceed 85 % according to ASTM F2170, use Sikafloor [®] -1610 or Sikafloor [®] -81							
	EpoCem [®] CA.							
	 Material temperature: Precondition material for at least 24 hours between 18 to 24 °C (65 to 75 °F) 							
	 Ambient and substrate temperature - Minimum / Maximum: 10 / 30 °C (50 / 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.							
	 Maximum ambient relative humidity: 85 % (during application and curing). Beware of condensation! The substrate must be at least 3 °C (5 °F) above the Dew Point to reduce the risk of 							
	• Beware of condensation: The 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.							
	Do not hand mix Sikafloor [®] materials. Mechanically mix only.							
	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 							
 Direct-fired gas or kerosene heaters produce by-products that can have adverse effects on curing. To avoid this occurrence, heaters much be exhausted to the exterior of the building to avoid defects such as amine blush. 								
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. Published Dynamic Coefficient of Friction (DCOF) wet and dry test results are approximate values based 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							
	The influence of colour selection should be allowed for in material consumption/coverage. Light or bright colours							
			al coats to achieve desired opac	city. Consult Sika Canada for				
	guidance at time of							
Health and Safety				products, users should refer to the				
Information	most recent SAFETY D	DATA SHEET containing physical	, ecological, toxicological and ot	ner safety-related data.				
	KEEP OUT OF REACH OF CHILDREN							
	FOR INDUSTRIAL USE ONLY							
	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, within their shelflife. 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	Other locations						
	601, avenue Delmar	Toronto	1 000 000 01/4					
	Pointe-Claire, Quebec H9R 4A9	Edmonton Vancouver	1-800-933-SIKA www.sika.ca	Certified ISO 9001 (CERT-0102780) Certified ISO 14001 (CERT-0102791)				
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Sikafloor® Morritex® Self-Levelling Smooth System CSC Master Format™ 09 67 00 FLUID-APPLIED FLOORING 3/3

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