



Technical data sheet

February 26, 2024
Revision #3



SCI-100 M30

Flexible Epoxy Coating System 100% Solids

DESCRIPTION	SCI-100-M30 is 100% solid, two component, flexible epoxy coating system designed to protect concrete from water infiltration while showing excellent mechanical properties and good chemical resistance. This system complies with the Canadian Food Inspection Agency (CFIA).				
ADVANTAGES	<ul style="list-style-type: none"> ■ Dense surface resistant to bacteria and moisture and easy to clean ■ May apply several layers on itself ■ Contains low VOC (78.9 g/L), allowing for interior application without harmful odors ■ Excellent adhesive properties, allowing application on different substrates. ■ Meets LEED standards ■ Has 20% elongation 				
TECHNICAL DATA	Packaging	11.35 L (3 US gal.) and 56.7 L (15 US gal.)			
	Color	Part A Upon Request	Part B Clear to Amber	Mix Upon Request	
	Recommended Thickness	Primer	16 - 20 mils		
		Finish Coat	10 - 16 mils		
	Mileage per gallon (8 mils thick)	200 ft ²			
	Shelf Life	12 months in original unopened factory sealed containers. Keep away from extreme cold, heat, or moisture. Keep out of direct sunlight and away from fire hazards.			
	Mix Ratio, by volume	A: B = 2:1 (100:50)			
	Mix Ratio, by weight	Clear	A: B =100: 41 - 48		
		Colors	A: B =100: 39 - 45		
	Pot Life (454 g)	20 - 30 minutes @ 25°C / 77°F			
PROPERTIES @ 23°C (73°F) and 50% R.H.	Solids Content, by weight	100%			
	Solids Content, by volume	100%			
	VOC (g/L)	>40			
	Specific Gravity		Part A	Part B	Mix
		Clear	1.10 - 1.15	0.9 - 1.0	--
		Colored	1.15 - 1.20	0.9 - 1.0	--
	Thinner Recommended	XYLENE			
	Bond Resistance (psi), ASTM D4541	> 300 (substrate ruptures)			
	Permeability (%), ASTM D570	0.3%			
	Hardness (Shore D), ASTM D2240	35-45			
	Abrasive resistance, ASTM D4060 (CS17 / 1000 cycles / 1000 g)	0.10 g			
	Viscosity @ 25°C		Part A	Part B	Mix
		Clear	3500-4500	350-425	1500-1900
		Colors	2500-3500	350-425	1500-1900
	Tensile strength (psi), ASTM D638	2200-2400			
Compressive Strength (psi MPa), ASTM D695	N.A				
Elongation %, ASTM D638	70-75%				
Please note, that the indicated mileage is calculated for flat surfaces A porous or imperfect surface will require more material in order to cover the same surface area.					
Overcoat		Substrate Temp	Minimum	Maximum	
		± 10 °C / 50°F	N.A	N.A	
		± 20 °C / 68°F	8 hours	24 hours	
		± 30 °C / 86°F	6 hours	24 hours	
	Curing Details	Substrate Temp	Foot Traffic	Light Traffic	Full Cure
		± 10 °C / 50°F	N.A	N.A	N.A
		± 20 °C / 68°F	1 day	3 days	7 days
	± 30 °C / 86°F	16 hours	2 days	5 days	



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SURFACE PREPARATION	<p>Old Concrete Concrete surface must be cleaned and mechanically prepared using shotblasting, sand blasting, and/or diamond grinding. All oils, sealers, curing agents, waxes and fats must be removed prior to product application. Do not apply to wet substrates. Chloride, moisture, and pH levels should be checked prior to application. SCI-801 primer is suggested prior to application on porous concrete substrates.</p> <p>New Concrete New concrete should be allowed to cure for a minimum of 30 days. Compression resistance of concrete must be at least 25 MPa (3625 lbs./inch²) after 28 days and traction resistance must be at least 1,5 MPa (218 lbs./inch²). Shotblasting, sand blasting, and/or diamond grinding is required to remove the surface laitance that appears during the concrete finishing and curing process. SCI-100-M30 primer should be used to seal porous concrete surfaces prior to application.</p>
MIXING	Materials should be pre-conditioned to a minimum of 15°C (59°F) prior to use. Thoroughly mix each component separately using paddle mixers and a drill for a minimum of 2 minutes to place the solids content evenly in suspension. Pour component B into component A using the proper mixing ratio of 2A:1B by volume. Mix both components for at least 3 minutes using a drill at low revolution (300 to 450 rpm) to reduce trapping of air. While mixing, scrape bottom and walls of container at least once to ensure a homogeneous mix. Only prepare quantity that may be applied during pot life of mixture.
APPLICATION	Apply mixed product on the prepared surface tightly (thin film) using a rubber rake and pass a roller to obtain a uniform coating. Avoid creating puddles.
CLEANING	Clean all tools and materials with the cleaner/thinner for epoxies. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.
RESTRICTIONS	<ul style="list-style-type: none">■ Minimum/Maximum temperature of substrate: 15°C / 30°C (59°F / 86°F).■ Maximum relative humidity during application and curing: 85%.■ Substrate temperature must be 15°C (59°F).■ Humidity content of substrate must be <4 % when coating is applied.■ Do not apply on porous surfaces where a transfer of humidity may occur during application.■ Avoid exterior use on substrates at ground level.■ Protect from humidity, condensation and contact with water during the 24-hour initial curing period.■ Surface may discolor in areas exposed to regular ultraviolet light.
HEALTH AND SAFETY	<p>In case of skin contact, wash with water and soap. In case of eye contact, immediately rinse with water for at least 15 minutes. Consult a physician. For respiratory irritations, move affected person outdoors to fresh air. Remove contaminated clothes and wash before reuse.</p> <p>Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke irritation. Avoid eye contact. Contact with product may cause severe burns. Avoid breathing vapors released from this product. This product is a strong sensitizer. Wear safety glasses and chemical resistant gloves. A breathing apparatus filtering organic vapors approved by the NIOSH/MSHA is recommended. Always work in a properly ventilated area.</p> <p style="text-align: center;">*Consult the material safety data sheet for further information.*</p>
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