

Systems data sheet

January 1, 2024 Revision #1



DESCRIPTION

SCI-Metallic System is a 100% solid, two component epoxy coating. With a metallic and glossy finish, SCI-Metallic System offers the same physical and chemical properties as the SCI-100 product range with an exceptional look, and a seamless and easy to clean finish. SCI-Metallic System meets all kinds of requirements such as durability, performance as well as aesthetics. This seamless coating offers a wide range of metallic colors that can satisfy any aesthetic requirement. This system has been approved by the Canadian Food Inspection Agency (CFIA). It meets LEED standards.

This system is composed of:

- 1. Optional: A coat of primer (SCI-100 LV)
- 2. 1st coat of (SCI-100) 8 mils
- 3. 2nd coat of (SCI-100) 30-40 mils. Clean with liquid metallic pods or powders.

PRIMARY APPLICATIONS

- Offices
- Showrooms
- Boutiques
- Classrooms
- Clean rooms
- Laboratories
- Commercial reception areas

ADVANTAGES

- Contains no solvent with a very low VOC content, allowing for interior applications without harmful odors
- Impermeable and seamless
- Ultra-design appearance
- Dense surface resistant to bacteria and moisture and easy to clean
- Excellent adhesive properties, allowing for application on a wide variety of substrates
- May apply several layers on itself with excellent adhesion

TECHNICAL DATA

Packaging liters/ US gal	11.34 / 3	11.34 / 3 15.9 / 4.2 56.7 / 15				
Color	Part A	Part B	Mixture			
	Upon Request	Clear - Amber	Same as Part A			
Recommended Thickness						
Primer : SCI-100	8 mils / 200 ft² US gal					
Finish Coat : SCI-100-MT	30-40 mils / 40-53 ft² US gal					
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					

*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 mileage.

SCI-100-MT complies with the following LEED requirements IEQ Credit 4.2: Low emitting materials; Paints and coating SCAQMD Method 304-91 VOC content < 110 g / L



TECHNICAL DATA	Pot life (150g)		50-60 minutes 25°C					
	VOC (g/litre)	77						
	Density (kg/litre)	Part	Α .	Part B	Part B Mixture			
	Clear Colored		- 1.13	0.9 - 1.0	-	-		
			- 1.15	0.9 - 1.0).9 - 1.0 -			
	Solids by weight %		100%					
	Recommended Thinner Xy		Kylene					
	Substrate Temperature	10°C		20°C 30°C				
	Waiting Time / Overcoatability (min/max)	16 / 48		8 / 24	8 / 24 6 / 24			
	Curing Details							
	Foot traffic	30 hours		24 hours	16	16 hours		
	Light traffic		iys	3 days	,			
	Full cure & chemical resistance	10 d		7 days				
	*Note: Times and data mentioned are based on laboratory conditions. Field results may vary and will be affected by changing ambient conditions, especially changes in temperature and relative humidity.							
PROPERTIES	Bond Resistance (psi), ASTM D45	D4541 268		268 (substrate ruptures)				
@ 23°C (73°F) 50% R.H.	Permeability (%) ASTM D570		0.3					
50% К.П.	Hardness (Shore D), ASTM D2240		85 - 90					
	Tensile Strength (psi), ASTM D638		5500					
	Compressive Strength, ASTM D695		10,000 +					
	Elongation (%), ASTM D638		6.7					
	Abrasive resistance, ASTM D4060 (CS17 / 1000 cycles / 1000 g)		0.10 g					
	Viscosity @ 25°C (cps)		Part A	Part B		Mixture		
	C	Clear	1200 - 14	100 200 - 4	100	700 - 900		
	Co	olors	1400 - 16	500 200 - 4	100	1000 - 1200		
SURFACE PREPARATION MIXING	The surface to be coated must be agents, waxes, foreign matter, any p such as shot-blasting (BLASTRAC) compressive strength of the concret strength at least 1.5 MPa (218 lbs/in	reviou or any e musi 1 ²).	s coatings, other appro t be at least	and disintegrat oved method to 25 MPa (3625	ed substoobtain (5 lbs/in²)	tances by mechanical mea an ICRI-CSP 3-4 profile. T after 28 days and the tens		
	Pre-mixed color or clear (A) Mix the resign part (A) and other particles the band area (and B) according to the indicated mixing and							
	Mix the resin part (A) perfectly before pouring the hardener (part B) according to the indicated mixing ratio Depending on product amount and size of mixing equipment, mix for 1 to 3 minutes at low speed (300 to 450 rpm). During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture. As the pot life is limited, prepare amount of desired product as required in order							

Part (A) when adding color pod

to avoid any loss.

Incorporate a full colored container into the clear part (A), and then thoroughly mix until the color is uniform (one colored container pod per part A gallon) before pouring in the hardener (part B) according to the indicated mixing ratio. Depending on product amount and size of mixing equipment, mix for 1 to 3 minutes at low speed (300 to 450 rpm). During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture. As the pot life is limited, prepare amount of desired product as required in order to avoid any loss.



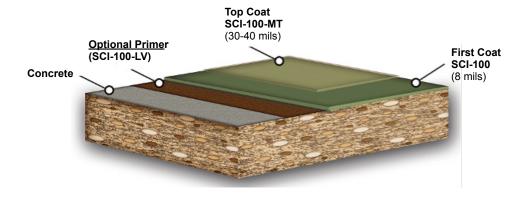
APPLICATION

APPLICATION: 1st coat of SCI-100-LV

Apply the coating using a rubber squeegee and pass a roller to obtain a uniform coating.

APPLICATION: 2nd coat of SCI-100 with metallic liquid or powder

Apply the finish coat using a rubber squeegee or a suggested trowel and allow the product to self-level. (It is not recommended to use a roller for the top coat).













CLEANING	Clean all application equipment with the recommended cleaner (Xylene). Once the product has hardened, it can only be removed by mechanical means. In case of skin contact, wash thoroughly with warm soapy water.
RESTRICTIONS	 Do not apply at temperatures below 10°C / 50°F or above 30°C / 86°F The relative humidity of the surrounding work environment during the application of the coating and throughout the curing process should not exceed 85% Substrate temperature must be 3°C (5.5°F) above dew point measured 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 the application The application of this coating on an interior or exterior substrate without a moisture barrier is at risk of detachment (by hydrostatic pressure). Protect the coating from all sources of moisture for a period of 48 hours Surface may discolor in areas exposed to regular ultraviolet light
HEALTH AND SAFETY	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 with a doctor. For respiratory problems, transport victim to fresh air. Remove contaminated clothes and clean before reuse. Components A and B contain toxic ingredients. Prolonged contact of this product with the skin is susceptible to provoke an irritation. Avoid eye contact. Contact with may cause serious burns. Avoid breathing vapors release 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. Predict suitable ventilation. Consult the material safety data sheet for further information.
IMPORTANT NOTICE	The information and recommendations contained in this document are based on reliable test results according to SCI COATINGS INC. The data mentioned are specific to the material indicated. If used in combination with other materials, the results may be different. It is the responsibility of the user to validate the information therein and to test the product before using it. SCI COATINGS INC. assumes no legal responsibility for the results obtained in such cases. SCI COATINGS INC. assumes no legal responsibility for any direct, indirect, consequential, economic or any other damages except to replace the product or to reimbursement the purchase price, as set out in the purchase contract.