Technical data sheet

November 28, 2023
Revision #2

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SCI-200-714 (G,S & M)

Waterborne Polyurethane Coating System

DESCRIPTION

SCI-200-714 (G,S and M) is a two-component, water-based polyurethane coating system specially designed to protect and enhance the appearance of various types of surfaces and provide a glossy, satin, and mat. It has good adhesion with concrete and different types of polymer materials, while providing excellent abrasion resistance. SCI-200-714 (G,S and M) complies with the standards of the Canadian Food Inspection Agency (CFIA).

PRIMARY APPLICATIONS

- Grocery and department stores.
- Hospitals and healthcare facilities.
- Museums, banks and institutional structure
- Offices and government buildings
- Schools, colleges and universities.
- Commercial and general service industrial environments.

ADVANTAGES

- VOC level: <10 g/L
- Fast drying
- Early water resistance
- Long pot life
- Excellent adhesive properties, allowing application onto other substrates
- Superior chemical resistance
- Superior U.V. resistance
- Outstanding appearance
- Gloss, satin and mat finishes

TECHNICAL DATA

Color	**Part A**	**Part B**	**Mix**
	Upon Request	Amber	Upon Request
Recommended Thickness	SCI-714 4 - 6 mils (250 - 400 ft²/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 = 5:1 (100:20)		
Mix Ratio, by weight (grams)	A: B = 100:22		
Pot Life (454 g)	1-3 hours @ 25°C		

PROPERTIES @ 23°C (73°F) and 50% R.H.

Solids Content, by volume	**Part A**	**Part B**	**Mix**
	53	87	60.4
Solids Content, by weight	**Part A**	**Part B**	**Mix**
	55	100	64
Specific gravity	**Part A**	**Part B**	**Mix**
	1.04	1.15	1.06
Thinner Recommended	Water		
Recoat Window	4 - 6 hours		
Pedestrian Traffic	12 - 24 hours		
Normal Traffic	24 - 48 hours		
Heavy Equipment Traffic	> 72 hours		
Abrasion Resistance, ASTM D4060, Taber Abrader CS-17 Wheel / 1000g (2.2 lbs.) / 1000 cycles	0.2 g		
Water Absorption (%), ASTM D570	1.5 %		
Hardness (Shore D), ASTM D2240	N.A		
Viscosity @ 25°C cps (Zahn cup #4, seconds)	18-22		
Shine @60° (%)	**Gloss**	**Satin**	**Matte**
	90	35	13

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Bond Strength, ASTM D4541	>300 (substrate ruptures)
Impact Resistance: direct / reverse (lbs.), ASTM D-2794	16/2

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.

****Please note that the indicated viscosity is for clear product only. Any addition of colorant may affect the viscosity.****

SURFACE PREPARATION

The surface to be coated must be well primed. Remove all surface contaminants such as dust, coatings, laitance, grease, oil, dirt, and curing agents by mechanical means such as shot blasting or diamond grinding. Surface should be free of water. Porous surfaces may require multiple priming.

MIXING

Materials should be pre-conditioned to a minimum of 10°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 5A: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 soapy water followed by a solvent rise. Wash hands and skin carefully with warm soapy water. Once product has hardened, it may only be removed through mechanical means.

RESTRICTIONS

- Minimum/Maximum temperature of substrate: 15°C / 30°C (59°F / 86°F).
- Maximum relative humidity during application and curing: 80%.
- 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 o 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 a physician. For respiratory irritation, move affected person 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 product 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. Work in well ventilated area.

Consult the material safety data sheet for further information.

IMPORTANT NOTICE

All statements, recommendations and technical information contained in this document are accurate to the best knowledge of SCI COATINGS INC. The data relates only to the specific material designated herein. It may not be valid if used in combination with any other materials. It is the users' responsibility to verify suitability of this information for their own particular use, and to test this product before use. SCI COATINGS INC. assumes no legal responsibility for use upon these data. SCI COATINGS INC. assumes no legal responsibility for any direct, indirect, consequential, economic, or any other damage except to replace the product or refund the purchase price as set out in the purchase agreement.