

Systems data sheet

January 1, 2024 Revision #1



DESCRIPTION

SCI-COVE Quartz System is an epoxy mortar specifically designed for cove bases and vertical applications. Each unit of SCI-COVE Quartz System consists of a special mixture of solventless epoxy, quartz aggregates, and fine powder to facilitate the application and grip on vertical surfaces. It provides excellent physical properties in addition to excellent resistance to impact and abrasion. It is used in conjunction with other epoxy systems to create a seamless, square or round joint between the walls and the floor. This system has been approved by the Canadian Food Inspection Agency (CFIA).

This system is composed of:

- 1. Primer coat (SCI-COVE primer)
- 2. Basecoat (SCI-COVE Quartz System) 3mm 1/8in rounded at the floor wall junction
- 3. 1st sealing grout coat (SCI-100-OP) clear 10 -15 mils
- 4. 2nd sealing grout coat (SCI-100-OP) clear 10-15 mils
- 5. Top coat (SCI-100) colored 8-10 mils
- 6. Optional 2nd top coat of (SCI-300-MPL) 3-8 mils

PRIMARY APPLICATIONS

- Pharmaceutical production areas
- Assembly areas
- Classrooms
- Refineries
- Waste treatment plants
- Laboratories
- Areas of light to heavy manufacturing
- Mechanical rooms

ADVANTAGES

- Contains 100% solids, allowing for interior applications without harmful odors
- Ideal to facilitate cleaning of floor-wall junctions
- Superior compression strength
- Impact resistant
- Can be used on large vertical surfaces
- Impermeable and seamless
- 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 SCI-Cove 25.7 kg (A/B) C | | 2.94 liters | 25.7 kg | | | | |
|---------------------------------------|---|---|--------------------|------------|----------------|--|--|
| Color | | Part A | Part B | Part C | Mixture | | |
| | | Clear | Creamy white | On Request | Like Part C | | |
| Recommended Thickness | | | | | | | |
| Primer | | 8 mils / 200 ft² US gal | | | | | |
| Base coat 4 in radiu | s 1 in | 15 linear feet per unit | | | | | |
| Each additional sealer | Each additional sealer coat 10-15 mils / 106-160 ft² US gal | | | | | | |
| Тор | coat | 8-10 mils / 160- | 200 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:C=1.96 | L / .98 L /22.7 kg | Always | mix full units | | |
| Mileage | | The recommended mileage is calculated for a baseboard with a radius of 25 mm / 1" and a height of 100 mm / 4" by 25 mm / 1" shaped to a thickness of 3 mm (1/8in) Also consult the technical data sheets of the individual products in the SCI-COVE Quartz System. | | | | | |

*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.



| TECHNICAL DATA | Pot life (150g) | | 35 - 45 minutes 25°C | | | | | |
|------------------------|--|---------------------------|--------------------------|---------------------------|--------------------------------|---|--|--|
| | VOC (g/litre) | | - | | | | | |
| | Density (kg/litre) | | t A | Pa | rt B | Mixture | | |
| | | | | - | | - | | |
| | Solids by weight % | | % | | | | | |
| | Recommended Thinner | | Xylene | | | | | |
| | Substrate Temperature | | 10°C 20°C 30°C | | | | | |
| | Waiting Time / Overcoatability (min/max) | | / 72 | 8 / 48 | | 5 / 24 | | |
| | Curing Details | | | | | | | |
| | Foot traffic | | | - | | - | | |
| | Light traffic | - | | - | | - | | |
| | Full cure & chemical resistance | 10 c | days | 7 days | | 5 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 | 541 | 250 (substrate ruptures) | | | | | |
| @ 23°C (73°F) | Permeability (%) ASTM D570 | | - | | | | | |
| 50% R.H. | Hardness (Shore D), ASTM D2240 | | 82 - 85 | | | | | |
| | Tensile Strength (psi), ASTM D638 | | 5200 | | | | | |
| | Compressive Strength, ASTM D695 | | 9600 - 10000 | | | | | |
| | Elongation (%), ASTM D638 | | 8% - 10% | | | | | |
| | Abrasive resistance, ASTM D4060 (CS17 / 1000 cycles / 1000 g) | | 0.15 g | | | | | |
| | Viscosity @ 25°C (cps) | | Part A | | Part B | Mixture | | |
| | | | - | | - | - | | |
| SURFACE PREPARATION | 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 mus | s coatings other app | s, and disir proved me | itegrated sub thod to obtai | ostances by mechanical means an ICRI-CSP 3-4 profile. T | | |
| MIXING | The products must be conditioned at a temperature between 18°C (65°F) and 30°C (86°F). | | | | | | | |
| | How to prepare part A and B for the system | | | | | | | |
| | Mix the resin part (A) perfectly before pouring the hardener (part B) according to the indicated mixing rational Depending on product amount and size of mixing equipment, mix for 1 to 3 minutes at low speed (300 450 rpm). During mixing, scrape the walls and bottom of the container at least once with a trowel to obtain a homogeneous mixture. | | | | | | | |
| | How to prepare the epoxy mortar A/B/C | | | | | | | |
| | Transfer the A/B mixture into a mixing tank for mortars (Ted Baugh mixer – Kol mixer) and gradual incorporate (Part C) and mix for 2-3 minutes until all the aggregates are evenly incorporated. Immediate | | | | | | | |

required in order to avoid any loss.

spread the mixture on the primed surface. As the pot life is limited, prepare amount of desired product as

Important: To not see a difference in color between mixes always mix for the same amount of time between each mixture (mixing too long will burn the colored aggregates and discolor them.



APPLICATION

APPLICATION: Primer coat SCI-COVE primer

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

APPLICATION: Base coat SCI-COVE

On the damp or sticky surface apply the base coat on the vertical surface using a stainless steel trowel and smooth with a rounded stainless steel trowel; use a slip agent (SCI- 200) to facilitate the work.

APPLICATION: Sealing grout coat same color as the top coat.

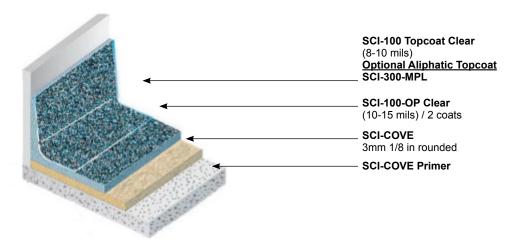
Apply the sealing grout coat (SCI-100-OP colored) with a brush or a roller and force the penetration of the epoxy with a steel, plastic or rubber spatula to fill the irregularities of the surface. Pass a roller to make the sealing layer uniform. Two to three layers may be required depending on the finish of the base coat.

APPLICATION: Top coat

Apply the finish coat (SCI-100 colored) using a roller or a brush to obtain a uniform coating.

OPTIONAL: Top coat

Replace the SCI-100 topcoat by an aliphatic or a chemical resistant topcoat, depending on desired application.









| 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 soap 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. |
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