

## Technical Data Product Information

**CS 5000SB Q CornerCrete®**  
**Slurry Matrix Decorative Quartz Polyurethane Flooring System**
**Description**

CS 5000SB Q is a nominal 1/4" thick heavy duty hybrid polyurethane flooring system utilizing colored quartz for an aesthetically pleasing appearance. Engineered for service conditions subject to impact and abrasion, chemical spills and extreme temperature changes. Ideal for industrial environments that require a moisture tolerant, bacterial resistant, durable high performance flooring system.

**Colors**

Color should be selected from the CornerStone Quartz Color Chart for this product available online at [www.cornerstoneflooring.com](http://www.cornerstoneflooring.com). Special colors available at an additional charge.

**Limitations**

- Where floor temperatures are below 60°F or above 85°F during application contact CornerStone's Technical Department.
- On a structurally unsound substrate.
- Keep materials at room temperature, prior to application.
- Relatively short pot life. Prepare batches to optimize utilization of components and manpower

**Installation Procedures**
**SUBSTRATE PREPARATION**

Prepare substrate by shot blasting, scarification or other mechanical means until an appropriate profile is evident. Remove all excess dust, curing agents and contaminants. Surface must be free of oils, water and chemicals.

ADVANTAGES	APPLICATIONS
• Coefficient of Expansion Similar to Concrete	• Food Processing Facilities
• Chemical Resistant	• Beverages Plants
• Skid Resistant	• Wineries
• Impact & Abrasion Resistant	• Bakeries
• Low Odor During Installation	• Wash Down Rooms
• Bacterial, Fungi, Mold & Algae Resistant	• Freezers & Refrigerated Spaces
• Withstands High Moisture Vapor Transmission	• Chemical Process & Containment Areas
• Withstands Thermal Cycling of -50°F to 250°F	• Newly Poured Concrete
• Meets USDA Standards	• Loading Docks
• Aesthetically Pleasing	• High Build Stand Alone System

**CS 5000SB Q APPLICATION**

1. Premix CornerCrete® liquids 1 & 2, then add powdered 3. Squeegee this slurry/bond coat "tight" to the prepared concrete.
2. The CornerCrete® slurry matrix liquid components 1 & 2 are to be combined sequentially in a rotating mixer for about 1 minute. The inert mineral based part 3 powders are then added and further blended to achieve a fully homogenized "mortar" consistency.
3. Spread the composite matrix to specified thickness (usually a double pass for greater than 4 mm thickness) and consolidate with proper finishing trowel techniques to smooth surface.
4. The Color Quartz aggregate will be applied immediately after the last pass.
5. Apply topcoat as specified.

Additional Topcoat Options: CS 2300CR, CS 2600SF, CS2160

APPLICATION	COMPONENTS	MIX RATIO
Primer	CornerCrete® Part 1,2,3	Per Label
Slurry Matrix	CornerCrete® Part 1,2,3	Per Label
Color Quartz	As Specified	Per Label
Topcoat	As Specified	Per Label

**Chemical Resistance**

Refer to the Chemical Resistance Guide for specific chemical resistance information or contact CornerStone's Technical Department.

**Cure Schedule**

At an ambient temperature above 72°F, 1/4" CS 5000SB Q can support foot traffic within 8-10 hours, full usage after 12-16 hours. Usable pot life 15 minutes, initial join up time 20 minutes.

**Maintenance**

Regular cleaning and maintenance will prolong the life of all polymer flooring systems and enhance their appearance.

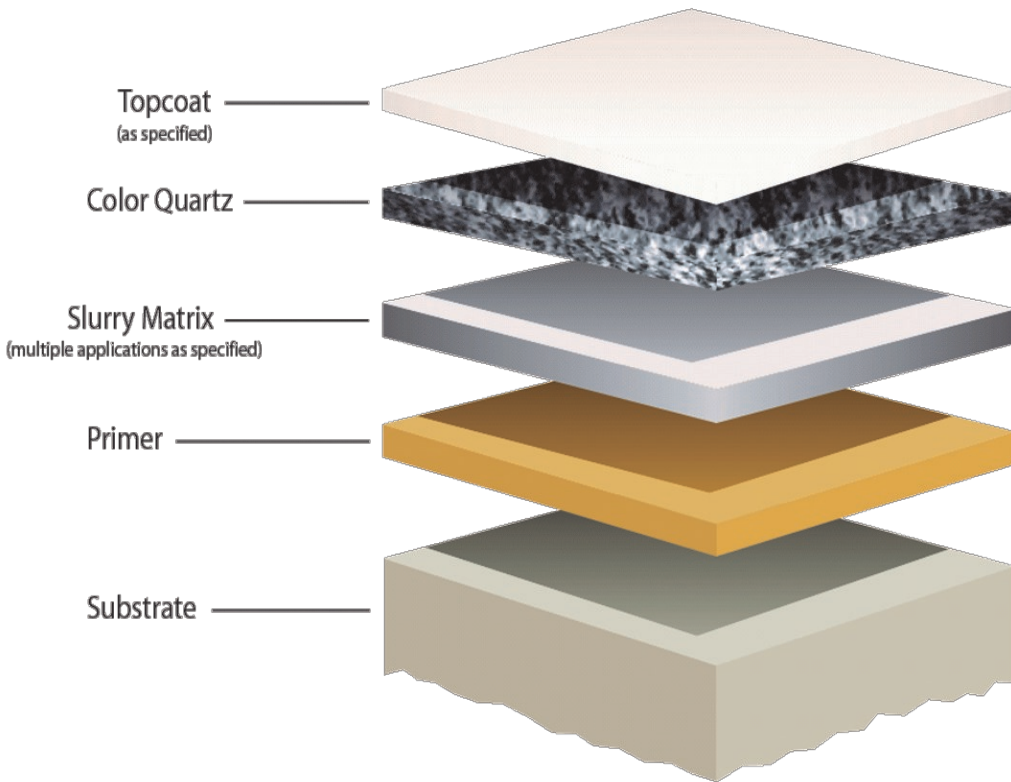
**Safety**

Avoid personal exposure. Refer to MSDS for additional safety information.

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**Test Data**

PROPERTIES	TYPICAL RESULTS	TEST METHOD
Compressive Strength	8,225 psi	ASTM C-579
Tensile Strength	930 psi	ASTM C-307
Flexural Strength	2,375 psi	ASTM C-580
Adhesive Strength	Concrete failed cohesively	ASTM C-321/C-478
Hardness	85	ASTM D-2240 Shore D
Flexural Modulus of Elasticity	1.8 x 10 <sup>6</sup>	ASTM C-580
Coefficient of Friction	0.6 - 0.75	ASTM D-2047
Impact Resistance	60 in/lbs 16ft/lbs no cracking or delamination	MIL D-3134
Abrasion Resistance	20-30 mg loss; CS-17 Wheel, 1,000 cycles	ASTM D-4060
Thermal Coefficient of Linear Expansion	6.12x10 <sup>-6</sup> /F	ASTM C-531
Water Absorption	0.05%	ASTM C-413
Density	2.5 lbs./s.f..	
Shrinkage	.20%	ASTM C-531
Anti Microbial Resistance	Passes	ASTM G-21



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