

## Technical Data Product Information

**CS 4100Q**  
**Decorative Quartz Epoxy Flooring System**
**Description**

CS 4100Q is a 1/8", 100% solids epoxy resin decorative colored quartz flooring system engineered to provide good wear qualities along with a decorative finish. Suitable for light duty areas that focus attention to aesthetics. Can be used in conjunction with CornerStone membranes to provide a complete waterproofing system.

ADVANTAGES	APPLICATIONS
• Meets USDA Standards	• Laboratories
• Chemical Resistant	• Corridors & Auditoriums
• Skid Resistant	• Locker Rooms & Restrooms
• Aesthetically Pleasing	• Cafeterias & Break Rooms
• Colored Quartz	• Light Traffic Areas

**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 65°F or above 80°F during application contact CornerStone's Technical Department.
- For on-grade installations that do not have a vapor barrier under the slab or in areas where high water table or hydrostatic pressure conditions are present.
- Areas subject to strong chemicals.
- On a structurally unsound substrate.
- Avoid exposure from sunlight or other high UV output lighting.

**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.

**CS 4100Q APPLICATION**

1. Apply specified polymer primer.
2. Broadcast aggregate.
3. Apply CS 2160 grout coat with a squeegee. Immediately back roll with 1/4" nap roller.
4. Broadcast aggregate.
5. Sweep off excess aggregate.
6. Sand surface.
7. Sweep floor to remove aggregate.
8. Apply CS 2160 topcoat with a squeegee. Immediately back roll with 1/4" nap roller.

Additional Topcoat Options: CS 2400CR, CS 2600SF

APPLICATION	COMPONENTS	MIX RATIO
Primer	As Specified	Per Label
Aggregate	As Specified	Per Label
Grout Coat	CS 2160A/2160B	Per Label
Color Quartz	As Specified	Per Label
Topcoat	CS 2160A/2160B	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 70°F, CS 4100Q can support foot traffic within 16 hours, full usage after 24 hours.

**Maintenance**

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

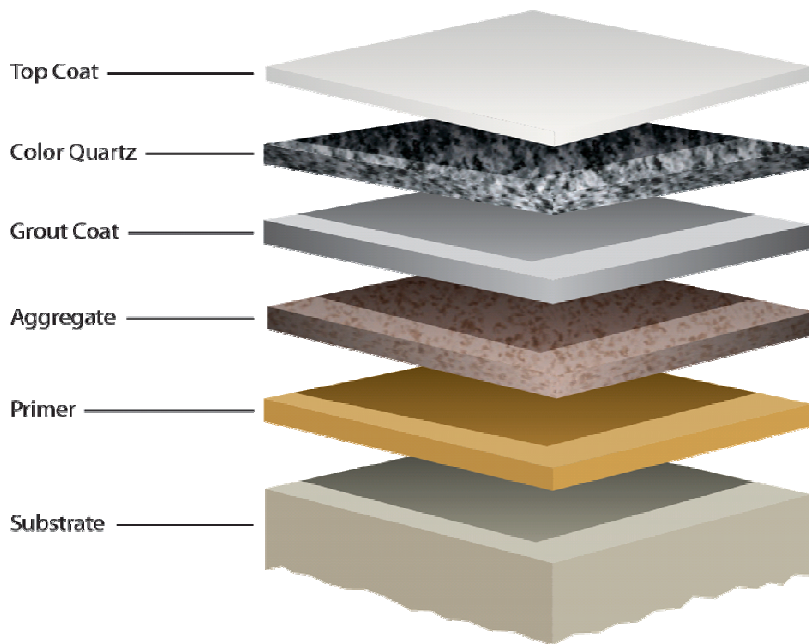
**Safety**

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

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**Test Data**

PROPERTIES	TYPICAL RESULTS	TEST METHOD
Compressive Strength	11,500 psi	ASTM C-579
Tensile Strength	2,500 psi	ASTM C-307
Flexural Strength	4,500 psi	ASTM C-580
Bond Strength to Concrete	415 psi (100% concrete failure)	ASTM D-4541
Flammability	Self Extinguishing	ASTM D-635
Heat Resistance Limitation	150° F to 200°F	
Hardness	80-85	ASTM D-2240 Shore D
Indentation	0.010 no chipping, cracking or delamination	MIL D-24613
Flexural Modulus of Elasticity	4.75X10 <sup>5</sup> psi	ASTM D-790
Tensile Elongation	7.5%	ASTM D-638
Coefficient of Friction	.90 Standard Texture .80 Medium Texture .70 Smooth Texture	ASTM D-2047
Impact Resistance	0.009 no chipping or delamination	MIL D-3134
Abrasion Resistance,	30-40 mg loss; CS-17 Wheel, 1,000 cycles	ASTM D-4060
Thermal Coefficient of Linear Expansion	1.8x10 <sup>-5</sup> in/in/°C	ASTM C-531
Water Absorption	0.02%	ASTM C-413



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