

## Technical Data Product Information

**CS 4500HD Q**  
**Heavy Duty Decorative Quartz Epoxy Flooring System**
**Description**

CS 4500HD Q is a nominal 3/16" - 1/4" thick 100% solids heavy duty decorative colored quartz epoxy mortar flooring system. This hybrid system stands up to extensive wear while delivering an aesthetically pleasing finish. Suitable for high-traffic environments that focus attention to aesthetics. Can be used in conjunction with CornerStone membranes to provide a complete waterproofing system.

**Colors**

Color should be selected from the CornerStone Quartz Flooring 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 texture is evident. Remove all excess dust, curing agents and contaminants. Surface must be free of oils, water and chemicals.

ADVANTAGES	APPLICATIONS
• Impact & Abrasion Resistant	• Pharmaceutical Facilities
• Chemical Resistant	• Laboratories
• Skid Resistant	• Locker Rooms & Restrooms
• Restoration of Deteriorated Concrete	• Cafeterias, Break Rooms & Common Areas
• Aesthetically Pleasing	• High Traffic Areas
• Colored Quartz	• Corridors
• Meets USDA Standards	• Biotech Facilities

**CS 4500HD Q APPLICATION**

1. Apply specified polymer primer.
2. Apply mortar mix over wet primer. This is best applied with a screed box and troweled to a 1/4" thickness.
3. Apply CS 2025 grout coat with a squeegee. Immediately back roll with 1/4" nap roller.
4. Apply color quartz.
5. Sweep off excess quartz.
6. Apply CS 2160 grout coat with a squeegee. Immediately back roll with 1/4" nap roller.
7. Apply color quartz.
8. Sand and sweep quartz.
9. 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
Mortar	CS 3000A/3000B	Per Label
Grout Coat	CS 2025A/2025B	Per Label
Color Quartz	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 4500HD Q can support foot traffic within 12 hours, full usage after 24 hours.

**Maintenance**

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

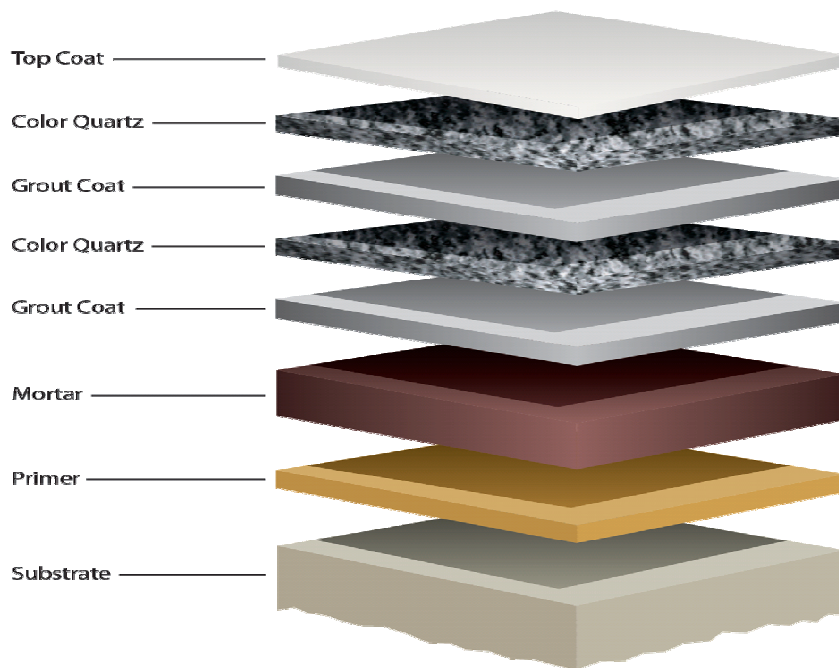
**Safety**

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

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**Test Data**

PROPERTIES	TYPICAL RESULTS	TEST METHOD
Compressive Strength	12,500 psi	ASTM C-579
Tensile Strength	2,800 psi	ASTM C-307
Flexural Strength	5,100 psi	ASTM C-580
Bond Strength to Concrete	415 psi (100% concrete failure)	ASTM D-4541
Indentation	0.009: no chipping, cracking or delamination	MIL D-24613
Hardness	80-90	ASTM D-2240 Shore D
Heat Resistance Limitation	150°F to 200°F	
Flexural Modulus of Elasticity	4.75x10 <sup>6</sup> psi	ASTM C-580
Tensile Elongation	7.5%	ASTM D-638
Abrasion Resistance	30-40 mg loss; CS-17 Wheel, 1,000 cycles	ASTM D-4060
Water Absorption	0.02%	ASTM C-413
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
Thermal Coefficient of Linear Expansion	1.8x10 <sup>-5</sup> in/in/°C	ASTM C-531
Flammability	Self Extinguishing	ASTM D-635



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