

## Technical Data Product Information

**CS 5000TQ PF CornerCrete<sup>®</sup>**  
**6.35mm Trowel Matrix Polyurethane Flooring System with Optional Topcoat**
**Description**

CS 5000TQ PF is a nominal 1/4" thick heavy duty trowel applied hybrid polyurethane matrix flooring system. Engineered for highly aggressive service conditions, this performance based system offers quick installation for areas subject to impact and abrasion, chemical spills and extreme temperature changes. Ideal for heavy industrial environments that require a durable, moisture tolerant high performance flooring system.

**Colors**

Available from Standard CornerCrete Color Chart.

**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
• High 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 Areas
• Withstands Thermal Cycling of -50°F to 250°F	• Newly Poured Concrete
• Meets USDA Standards	• Loading Docks
• Quick Installation	• Secondary Containment Areas

**CS 5000TQ APPLICATION**

1. The CornerCrete<sup>®</sup> body coat liquid components 1 & 2 are to be combined sequentially in a rotating mixer for about 1 minute. Add inert mineral based part 3 powder and further blend to achieve a "mortar".
2. Spread the composite matrix to specified thickness and consolidate with proper finishing trowel techniques to smooth surface.
3. Apply receiving coat
4. Broadcast solid color aggregate.
5. Apply topcoat. Note: system will amber from UV light.

APPLICATION	COMPONENTS	MIX RATIO
Trowel Matrix	CornerCrete <sup>®</sup> Part 1,2,3	Per Label
Receiving Coat	As Specified	Per Label
Solid Color Aggregate	As Specified	Per Label
Topcoat	As Specified	Per Label

**Chemical Resistance**

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 5000TQ PF can support foot traffic within 4-6 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.

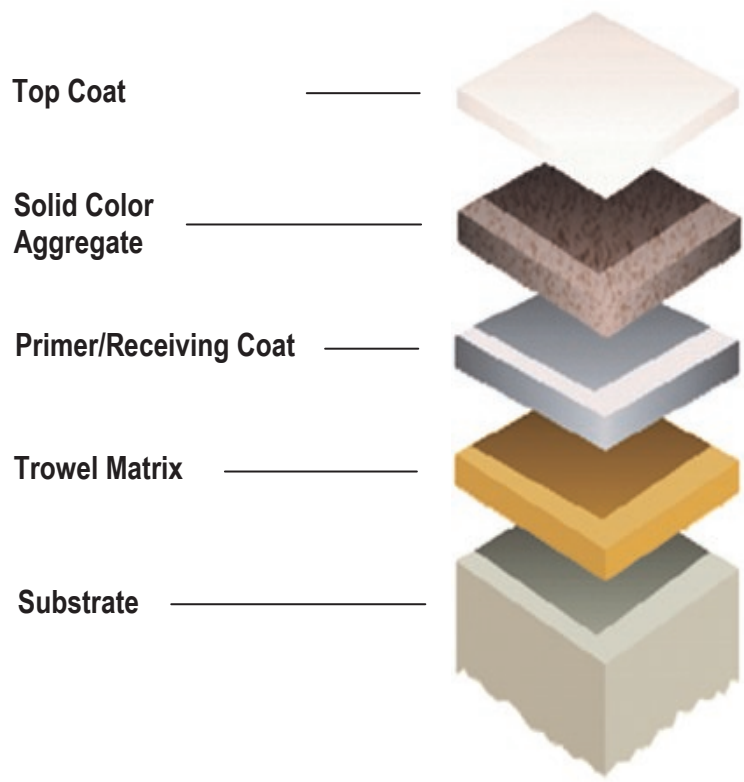
**Safety**

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

**CS 5000TQ CornerCrete®**  
Trowel Matrix Polyurethane Flooring System

**Test Data**

PROPERTIES	TYPICAL RESULTS	TEST METHOD
Compressive Strength	7,550 psi	ASTM C-579
Tensile Strength	845 psi	ASTM C-307
Flexural Strength	1,870 psi	ASTM C-580
Adhesive Strength	400 psi. Concrete failed cohesively	ASTM C-321 / C-478
Density	2.25 lbs./s.f.	n/a
Hardness	82	D-2240 Shore D
Absorption	0.05%	ASTM C-531
Flexural Modulus of Elasticity	1.7X10 <sup>6</sup>	ASTM C-580
Shrinkage	0.20%	ASTMC-531
Coefficient of Friction	0.8-1.2	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	1.08x10 <sup>-5</sup> /°F	ASTM C-531
Anti Microbial Resistance	Passes	ASTM G-21



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