CORNERSTONE® FLOORING

Technical Data Product Information

CS 5000SB CornerCrete® PF Antimicrobial Flooring System

Slurry Matrix Polyurethane Flooring System

Description

CS 5000SB PF Anti-Microbial s a nominal 1/4" thick heavy duty hybrid polyurethane slurry matrix flooring system. CornerCrete® is ideal for food and chemical process areas, containment areas and industrial environments that require a moisture tolerant, durable and cleanable flooring system.

Colors

Available from Standard CornerCrete Color Chart.

Limitations

- Where floor temperatures are below 60°F or above 85°F during application contact Corner*Stone*'s Technical Department.
- On a structurally unsound substrate.
- Keep materials at room temperature prior to application.
- Relatively short pot life.

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	• Beverage Plants
• Skid Resistant	• Wineries
• Low Odor During Installation	• Wash Down Rooms
• Bacterial, Fungi, Mold & Algae Resistant	• Freezers
• Withstands High Moisture Vapor Transmission	• Chemical Process
• Withstands Thermal Cycling of -50 ºF to 250ºF	• Newly Poured Concrete
• Meets USDA Standards	• Loading Docks
• Phthalate Free	• Containment Areas
• Anti-Microbial Properties	• Refrigerated Spaces

CS 5000SB APPLICATION

1. Premix CornerCrete® liquids 1 & 2.
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 material with Corner*Stone* recommended notch squeegee.
4. Broadcast aggregate to rejection.
5. Repeat steps 3 and 4 as required to achieve desired thickness.
6. Broadcast aggregate mixture.
7. Apply CS 5000 CornerCrete® PF Anti-Microbial Topcoat as final application.

Additional Topcoat Options: CS 2300CR

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

Chemical Resistance

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

Cure Schedule

At an ambient temperature above 72ºF, 1/4" CS 5000SB PF Anti-Microbial 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

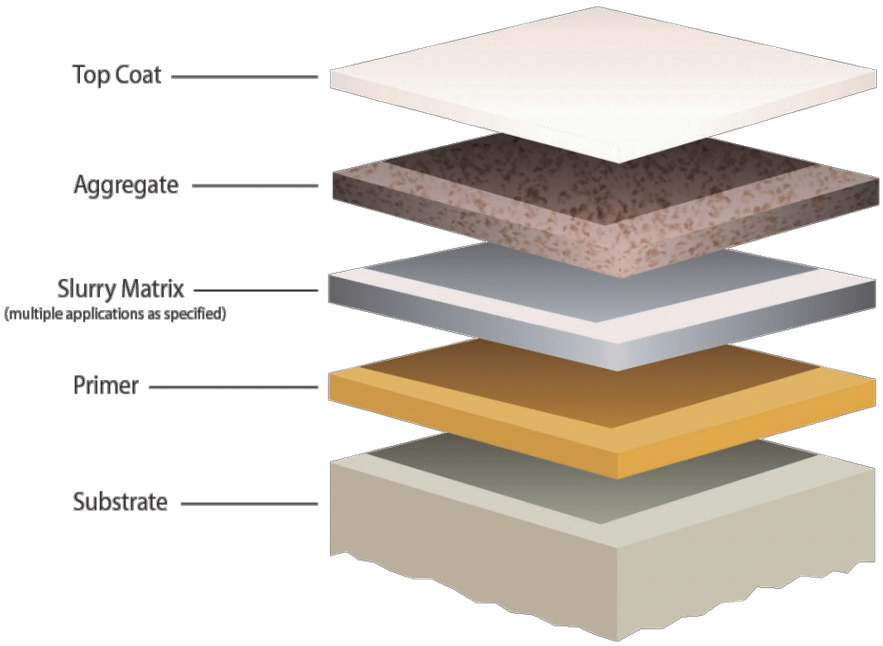
Regular cleaning and maintenance will prolong the life of all polymer flooring systems and enhance their appearance.

Safety

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

Test Data

PROPERTIES	TYPICAL RESULTS	TEST METHOD
Compressive Strength	8,225 psi	ASTM C-579
Tensile Strength	1,030 psi	ASTM C-307
Flexural Strength	2,375 psi	ASTM C-580
Bond Strength	456 psi (100% concrete failure)	ASTM D-4541
Adhesive Strength	Concrete failed cohesively	ASTM C-321/C-478
Density	2.5 lbs./s.f.	n/a
Hardness	85	ASTM D-2240 Shore D
Water Absorption	0.05%	ASTM C-413
Flexural Modulus of Elasticity	$1.8X10^{5}$	ASTM C-580
Shrinkage	0.20%	ASTM C-531
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	$6.12x10^{-6}/°F$	ASTM C-531
Anti Microbial Resistance	Passes	ASTM G-21



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