

Technical Data Product Information

CS 5000F PF Anti-Microbial Flooring System
BioFloor® Heavy Duty Decorative Paint Flake Polyurethane Flooring System
Description

CS 5000F PF Anti-Microbial BioFloor® is a nominal 1/4" thick heavy duty polyurethane matrix paint flake flooring system engineered for service conditions that focus attention on aesthetics. Our CS 5000F PF Anti-Microbial BioFloor® is designed to provide durability and cleanability while minimizing bacterial growth. Ideal for areas that require a moisture tolerant, high performance flooring system.

Colors

Variety of colors available in 1/4", 1/8" and 1/16" flake sizes. See Cornerstone Flake Flooring Color Chart.

Limitations

- Where floor temperatures are below 50°F or above 80°F during application contact Cornerstone's Technical Department.
- On a structurally unsound substrate.

Installation Procedures
SUBSTRATE PREPARATION

Prepare substrate by shot blasting, scarification or other mechanical means until an appropriate profile is evident (minimum CSP5 medium shotblasting). Remove all excess dust, curing agents and contaminants. Surface must be free of oils, water and chemicals.

ADVANTAGES	APPLICATIONS
• Cleanability	• Pharmaceutical Facilities
• Chemical Resistant	• Production Areas
• Impact and Abrasion Resistant	• Laboratories
• Withstands High Moisture Vapor Transmission	• Cafeterias, Break Rooms & Common Areas
• Bacteria, Fungi, Mold & Algae Resistant	• Wineries
• Aesthetically Pleasing	• Traffic Aisle Ways
• Withstands Thermal Cycling of -50°F to 250° F	• Secondary Containment Areas
• Meets USDA Standards	• Office Areas
• Phthalate Free	• Biotech Facilities

CS 5000F APPLICATION

1. Apply polyurethane primer.
2. Apply mortar mix over wet primer. This is best when applied with a screed box and troweled to 1/4" thickness.
3. Apply CS 2025 grout coat to mortar. Broadcast paint flakes into the wet epoxy.
4. Lightly sand the paint flakes and remove any excess.
5. Apply CS 2160 grout coat and broadcast paint flakes into the wet epoxy.
6. Lightly sand the paint flakes and remove any excess.
7. Apply a single grout coat of CS 2160.
8. Lightly sand surface and apply a final topcoat.

Additional Topcoat Options: CS 2400CR, CS 2400 ESD, CS 2160.

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 5000F 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

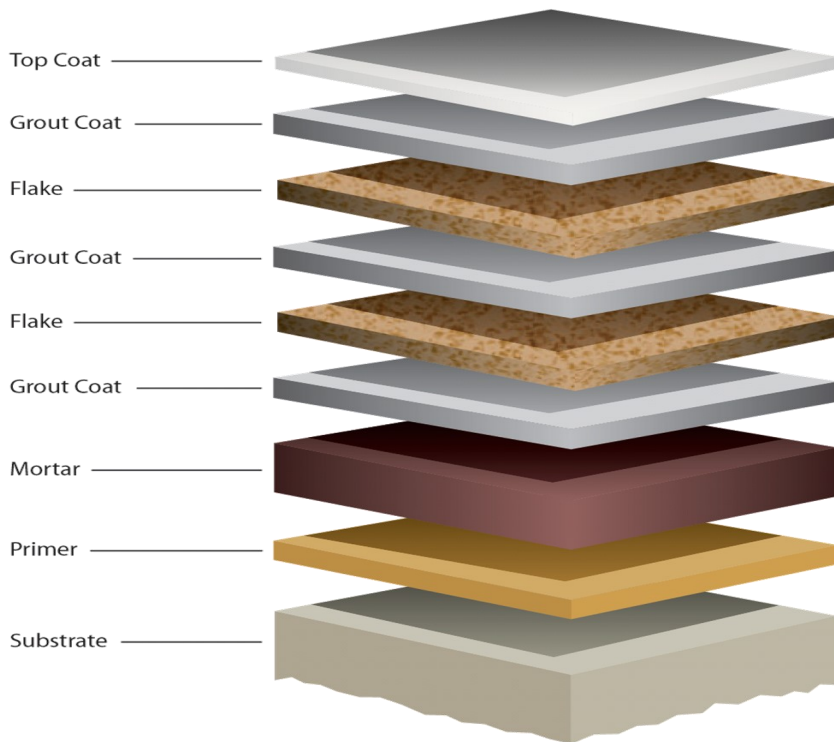
Avoid personal exposure. Refer to SDS for additional safety information.

APPLICATION	COMPONENTS	MIX RATIO
Primer	CornerCrete Part 1,2,3	Per Label
Mortar	CornerCrete Part 1,2,3	Per Label
Grout Coat	CS 2025A/2025B	Per Label
Flake	As Specified	Per Label
Grout Coat	CS 2160A/2160B	Per Label
Flake	As Specified	Per Label
Grout Coat	CS 2160A/2160B	Per Label
Topcoat	As Specified	Per Label

CS 5000F PF Anti-Microbial Flooring System
BioFloor® Heavy Duty Decorative Paint Flake Polyurethane Flooring System

Test Data

PROPERTIES	TYPICAL RESULTS	TEST METHOD
Compressive Strength	8,225 psi	ASTM C-579
Tensile Strength	845 psi	ASTM C-307
Flexural Strength	3,800 psi	ASTM C-580
Adhesive Strength	Concrete failed cohesively	ASTM D-4541
Shrinkage	.20%	ASTM C-531
Flexural Modulus of Elasticity	3,800 PSI	ASTM C-580
Dynamic Coefficient of Friction	0.6 - 0.75	ANSI 137.1
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 E2180
Water Absorption	0.05%	ASTM C-413



'USGBC' and related logo is a trademark owned by the U.S. Green Building Council and is used by permission.