



Technical Data Product Information

CS 5000F

BioFloor Heavy Duty Decorative Paint Flake Polyurethane Flooring System

Description

CS 5000F is a heavy duty hybrid polyurethane matrix paint flake flooring system engineered for service conditions that focus attention on aesthetics. Our CS 5000F 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 our Flake Selector color tool available online at www.cornerstoneflooring.com.

Limitations

- Where floor temperatures are below 50°F or above 80°F during application contact CornerStone's Technical Department.
- On a structurally unsound substrate.
- Areas subject to strong chemicals.

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
• Cleanability	• Pharmaceutical & Biotech 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

CS 5000F APPLICATION

1. Apply hybrid 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 2300CR, CS 2600SF

APPLICATION	COMPONENTS	MIX RATIO
Primer	CornerCrete Part 1,2,3	Per Label
Mortar	CornerCrete Part 1,2,3	Per Label
Grout Coat	CS 2025A/2200B	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

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

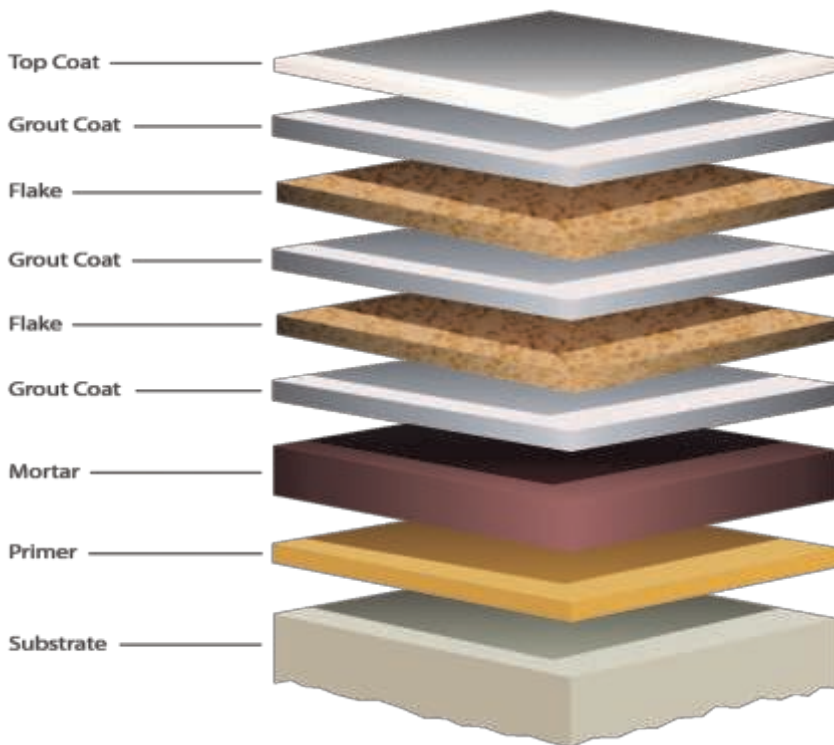
Regular cleaning and maintenance will prolong the life of all polymer flooring systems and enhance their appearance.

Safety

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

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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
Hardness	70-80	ASTM D-2240 Shore D
Softening Point	230°F	Vicant
Flexural Modulus of Elasticity	3,800 PSI	ASTM C-580
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	$6.12 \times 10^{-6} / ^\circ\text{F}$	ASTM C-531
Anti Microbial Resistance	Passes	ASTM G-21
Water Absorption	0.05%	ASTM C-413
Shrinkage	.20%	ASTM C-531



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