

Technical Data Product Information

CS 3000F
BioFloor Heavy Duty Decorative Paint Flake Epoxy Flooring System

Description

CS 3000F is a 100% solids heavy duty mortar matrix decorative paint flake epoxy flooring system. Engineered to provide durability along with a cleanable, aesthetically pleasing finish. Designed to provide the benefit of our heavy duty mortar system along with a chemical and UV resistant finish. Typically used as an alternative to Quartz or Terrazzo.

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 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.
- Areas subject to thermal shock.

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

FEATURES	APPLICATIONS
• Cleanability	• Pharmaceutical & Biotech Facilities
• Chemical Resistant	• Laboratories
• Skid Resistant	• Wineries
• Impact Resistant	• Animal Facilities & Vivariums
• Abrasion Resistant	• Cafeterias, Break Rooms & Common Areas
• Aesthetically Pleasing	• Locker Rooms & Restrooms

CS 3000F 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 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 and CS 2600SF.

APPLICATION	COMPONENTS	MIX RATIO
Primer	As Specified	Per Label
Mortar	CS 3000A/2100B	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 3000F 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.

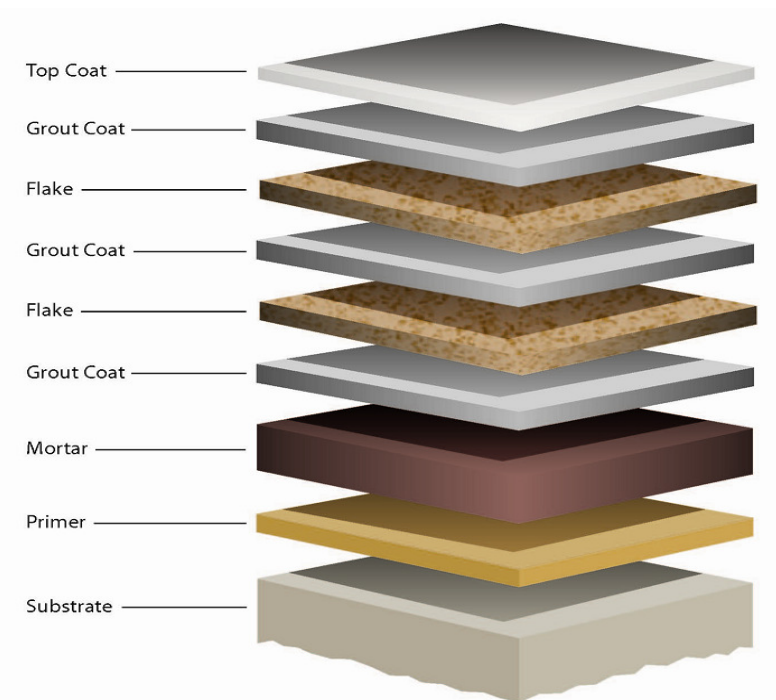
Safety

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

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Test Data

PROPERTIES	TYPICAL RESULTS	TEST METHOD
Compressive Strength	11,500 psi	ASTM C-579
Tensile Strength	2,500 psi	ASTM C-307
Flexural Strength	4,500 psi	ASTM C-580
Bond Strength	425 (100% concrete failure)	ASTM D-4541
Hardness	85-90	ASTM D-2240 Shore D
Flexural Modulus of Elasticity	2.0x10 ⁻⁶ psi	ASTM C-580
Coefficient of Friction	0.6 - 0.75	ASTM D-2047
Impact Resistance	0.009 no chipping or delamination	MIL D-3134
Flammability	Fire Resistant	ASTM D-635
Abrasion Resistance	24 mg loss; CS-17 Wheel, 1,000 cycles	ASTM D-4060
Heat Resistance	150°F to 200°F	
Thermal Coefficient of Linear Expansion	1.45 x 10 ⁻⁵ in/inc C	ASTM C-531
Slip Resistance	0.75	ASTM F-1679
Non-Slip Properties	>0.6 (ADA=0.6 min.)	MIL D-3134
Water Absorption	0.05%	ASTM C-413



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