

Technical Data Product Information

CS 4100F
Decorative Flake Flooring System
Description

CS 4100F is a nominal 1/8" thick, decorative colored flake flooring system engineered to provide good wear qualities along with a decorative finish. Suitable for light duty areas that focus attention to aesthetics. Can be used in conjunction with Cornerstone membranes to provide a complete waterproofing system.

Colors

Color should be selected from the Cornerstone Flake Color Chart for this product is available on our website at www.cornerstoneflooring.com. Special colors available at an additional charge.

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 hydro-static pressure conditions are present.
- On a structurally unsound substrate.
- Avoid exposure from sunlight or other high UV output lighting.

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
• Meets USDA Standards	• Laboratories
• Cleanability	• Corridors & Auditoriums
• Skid Resistant	• Locker Rooms & Restrooms
• Aesthetically Pleasing	• Cafeterias & Break Rooms
• Colored Flake	• Light Traffic Areas

CS 4100F APPLICATION

1. Apply specified polymer primer.
2. Broadcast aggregate.
3. Apply CS 2025 grout coat with a squeegee. Immediately back roll with 1/4" nap roller.
4. Broadcast flake.
5. Sweep off excess flake.
6. Lightly sand the paint flakes and remove any excess.
7. Apply a single grout coat of CS 2160 epoxy.
8. Lightly sand the paint flakes and remove any excess.
9. Apply CS 2160 topcoat with a squeegee. Immediately back roll with 1/4" nap roller.

Additional Topcoat Options: CS 2400CR

APPLICATION	COMPONENTS	MIX RATIO
Primer	As Specified	Per Label
Color Flake	As Specified	Per Label
Grout Coat	CS 2160A/2160B	Per Label
Color Flake	As Specified	Per Label
Topcoat	CS 2160A/2160B	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 4100F can support foot traffic within 16 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.

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Test Data

PROPERTIES	TYPICAL RESULTS	TEST METHOD
Tensile Strength	2,500 psi	ASTM C-307
Flexural Strength	4,500 psi	ASTM C-580
Bond Strength to Concrete	415 psi (100% concrete failure)	ASTM D-4541
Flammability	Self Extinguishing	ASTM D-635
Heat Resistance Limitation	150° F to 200° F	
Indentation	0.010 no chipping, cracking or delamination	MIL D-24613
Flexural Modulus of Elasticity	4.75X10 ⁵ psi	ASTM C-580
Tensile Elongation	7.5%	ASTM D-638
Dynamic Coefficient of Friction	.60 - .80	ANSI 137.1
Impact Resistance	0.009 no chipping or delamination	MIL D-3134
Abrasion Resistance,	30-40 mg loss; CS-17 Wheel, 1,000 cycles	ASTM D-4060
Thermal Coefficient of Linear Expansion	1.8x10 ⁻⁵ in/in/° C	ASTM C-531
Water Absorption	0.02%	ASTM C-413



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