CORNERSTONE® FLOORING

Technical Data Product Information

CS 3000HD
Heavy Duty Overlayment Epoxy Flooring System

Description

CS 3000HD is a 1/4" 100% solids heavy duty epoxy mortar matrix flooring system engineered to deliver versatility while providing unsurpassed functionality. This monolithic flooring system is ideal for protecting new concrete as well as restoring old or worn concrete surfaces. Can be used in conjunction with Cornerstone membranes to provide a complete waterproofing system.

Colors

Color should be selected from the Cornerstone Solid Polymer Flooring Color Chart available online at www.cornerstoneflooring.com. Custom 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 hydrostatic pressure conditions are present.
- On a structurally unsound substrate.
- Areas subject to thermal shock.
- 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
• Impact & Abrasion Resistant	• Manufacturing Facilities
• Chemical Resistant	• Production Areas
• Skid Resistant	• Traffic Aisle Ways
• Restoration of Deteriorated Concrete	• Warehouses
• Quick Installation	• Laboratories
• Seamless Surface	• Aircraft Hangars
• Meets USDA Standards	• Food Processing Facilities

CS 3000HD 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. (Coated Systems) Apply CS 2025 grout coat with a squeegee. Immediately back roll with a 1/4" nap roller.
4. Broadcast aggregate to achieve desired texture.
5. Allow grout coat to dry 8 hours before applying the second coat.
6. Apply CS 2025 topcoat with a squeegee. Immediately back roll with a 1/4" nap roller.

Additional Topcoat Options: CS 2300CR and 2400CR.

APPLICATION	COMPONENTS	MIX RATIO
Primer	As Specified	Per Label
Mortar	CS 3000A/3000B	Per Label
Grout Coat	CS 2025A/2025B	Per Label
Aggregate	As Specified	Per Label
Topcoat	CS 2025A/2025B	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 3000HD 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, enhance their appearance and reduce any tendency to retain dirt.
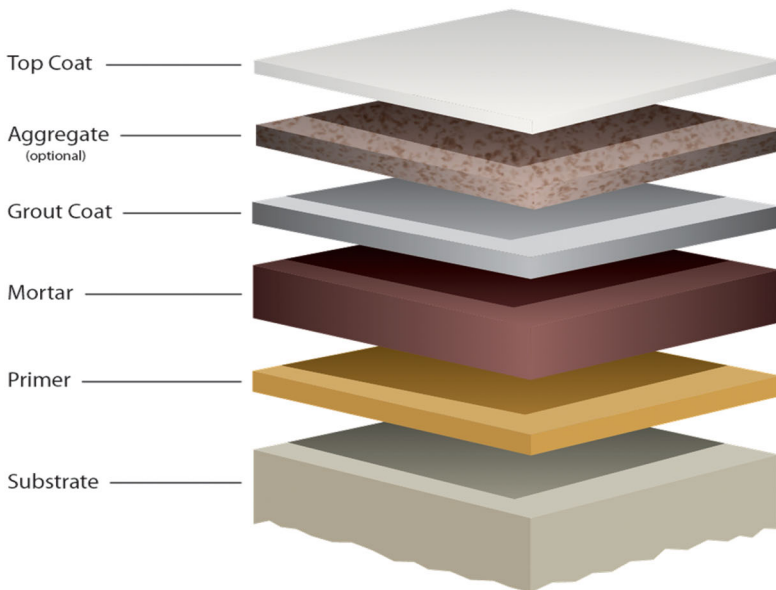
Safety

Avoid personal exposure. Refer to SDS 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	6,200 psi/2,500 psi	ASTM D-638/ASTM C-307
Flexural Strength	9,500 psi/4,500 psi	ASTM D-790/ASTM C-580
Bond Strength	425 (100% concrete failure)	ASTM D-4541
Adhesive Strength	325 psi (failure of concrete)	MIL D-3134
Indentation (24 hr)	nil	MIL D-3134
Flexural Modulus of Elasticity	3.0×10^6 psi	ASTM C-580
Oil Absorption	CS 3000 0.2%, CS 3025 nil	MIL D-3134
Impact Resistance	>160 in/lbs/0.009 no chipping or delamination	ASTM D-4226/MIL D-3134
Flammability	Class 1	ASTM E-648
Fire Resistance	Fire Resistant	MIL D-3134
Abrasion Resistance	20-30 mg loss; CS-17 Wheel, 1,000 cycles	ASTM D-1044/ASTM D-4060
Heat Resistance	150° F to 200° F	
Thermal Shock Resistance	Passes	ASTM C-884
Thermal Coefficient of Linear Expansion	1.5×10^{-5} in/inc C	ASTM C-531
Water Absorption	nil/0.05%	MIL D-3134/ASTM C-413

Top Coat

Aggregate
(optional)

Grout Coat

Mortar

Primer

Substrate

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