



1150 FC Industrial Epoxy Floor Coating

Description: **Simiron 1150 FC** is a fast cure 100% solids, two-component, high-build epoxy floor coating that's designed for applications where heavy-duty protection is required. The 1150 FC allows users to achieve a fast return to service flooring system that can be applied at temperatures as low as 32°F (0°C). Combine with decorative chip or quartz flooring systems to create an attractive and durable finish that can be applied in 1 day.

- Features & Benefits:**
- Fast curing formula for quick return to service
 - Low Temperature Application – As low as 32°F (0°C)
 - Excellent Blush Resistance
 - Chemical Resistant
 - Solvent Free
 - Seamless – High Build Coating
 - Excellent Adhesion Properties
 - Impact Resistant
 - Combine with decorative vinyl chips or quartz to create an attractive and durable finish

- Typical Uses:**
- Industrial & Commercial Warehouses
 - Electric Equipment Plants
 - Manufacturing Facilities
 - Clean Rooms
 - Automotive Service Areas
 - High Traffic Applications
 - Workshops
 - Assembly Areas
 - Schools
 - Shop Floors
 - Garages
 - Laboratories
 - Waste Water & Sewage Treatment Plants

Technical:

Physical Data

Finish	High Gloss
Color:	Haze Gray, Deck Gray & Sandstone
Curing Mechanism	Chemical reaction between components
Volume Solids	100%
Weight Solids	100%
VOC (EPA method 24)	0 g/Liter
Mix Ratio	1 part Base to 1 part Activator by Volume
DFT per Coat	10 to 30 mils 250 to 750 microns

<u>Theoretical Coverage</u>	ft ² /Gallon	m ² /Liter
10 mils (250 microns)	160	3.9
20 mils (500 microns)	80	1.9
30 mils (750 microns)	53	1.3

Shelf Life: 24 months, unopened and stored indoors at temperatures between 50°F (10°C) and 100°F (38°C)

<u>Flash Point</u>	°F	°C
Base	478	248
Activator	198	92

Performance:

Flexural Strength	ASTM D790	9,600 psi
Compressive Strength	ASTM C579	10,600 psi
Tensile Strength	ASTM D638	9,200 psi
Abrasion Resistance	ASTM D4060	90 mg loss <i>CS17 wheel, 1000 cycles, 1 Kg load</i>
Hardness, Shore D	ASTM 2240	75

Surface Preparation:

Concrete and primed concrete surfaces must be clean, dry and free of contaminants such as dirt, dust, grease, oil and other foreign materials. A suitable moisture barrier must be in place for concrete slabs on-grade. If a moisture barrier is not in place, seasonal variations in ground moisture can cause excessive hydrostatic pressure regardless of results measured prior to coating application.

New/Bare Concrete

Refer to SSPC-SP13, NACE 6, or ICRI No. 310.2, CSP 2-3.

Surfaces should be thoroughly clean and dry. New concrete must be cured a minimum of 28 days. Concrete should be shot blasted or diamond ground to a surface profile CSP 2 or 3.

Previously Painted Concrete

Old coatings and concrete must be in sound condition. Surfaces must be clean, dry and free of contaminants such as dirt, dust, grease, oil and other foreign materials. Old coatings must be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, or if the old coatings are peeling, chipping or are otherwise in poor condition, remove the coatings down to bare concrete and prepare the bare concrete as shown above.

Application Data:

Application Temperature Conditions

Air	32°-85°F	0°-29°C
Surface	32°-85°F	0°-29°C
Material	32°-85°F	0°-29°C

Drying Schedule @ 10.0 mils wet (250 microns)

	@ 32°F/0°C	@ 72°F/22°C	@ 85°F/29°C
To Touch:	4-8 Hours	3-6 Hours	1-2 Hours
To Recoat (Minimum):	10 Hours	8 Hours	4 Hours
*To Recoat (Maximum):	24 Hours	18 Hours	16 Hours
Foot Traffic:	14 Hours	8 Hours	4 Hours
Heavy Traffic:	24 Hours	16 Hours	14 Hours
Full Cure:	7 Days	3 Days	3 Days
Pot Life:	25 minutes	15 minutes	10 minutes

Recoating after maximum recoat hours requires surface abrasion to ensure proper adhesion

Application Equipment: Squeegee – Flat or notched rubber squeegee (depending upon DFT required) with EPDM rubber blade, available from manufacturers of quality application tools like Midwest Rake Company.

Rollers – Use a 3/8” shed-resistant woven roller cover with phenolic core for back-rolling, available from manufacturers of quality application tools like Wooster Brush Company.

Mixing: 1150 FC is a two-component coating and proper mixing is required. Mix base thoroughly to disperse pigment before mixing with activator. Mix 1 part base to 1 part activator by volume for three minutes, material is immediately ready for use after mixing base and activator; *no induction time required*. Do not mix more material than can be used within the working time. See charts for appropriate times and pot life. Material that has begun to set (thicken) cannot be satisfactorily used and must be discarded. Surface temperatures must be at least 5°F (3°C) above dew point to prevent condensation.

Application Procedure: Pour mixed material onto floor in a long bead approximately 12-18 inches wide. Do not drain or scrape remaining material in bucket.

Use either a flat or notched rubber squeegee and spread material to uniform thickness. As material is being spread, another applicator should immediately back-roll material with a 3/8” shed-resistant woven roller cover. **DO NOT BACK-ROLL MATERIAL AFTER IT BEGINS TO TACK-UP.**

Do not apply multiple batch numbers in a single floor area. Be sure to mix material with different batch numbers together to ensure color uniformity if using two different batch numbers. Color uniformity cannot be guaranteed from batch to batch. To help prevent visual color differences during application be sure to minimize the time between tie-ins and use control joints or natural breaks as breaking points between mixes. Consult with a Simiron representative for help or questions with your project.

Clean Up: Clean brushes, rollers, tools and equipment with acetone or xylene and follow solvent manufacturer’s safety instructions. Use “waterless” hand cleaner to remove dried material from skin.

Shipping Data: Packaging Information

2 Gallon Kit
Base: 1 Gallon 128 fl. oz. (3.78L) in a 1 Gallon (3.78L) container
Activator: 1 Gallon 128 fl. oz. (3.78L) in a 1 Gallon (3.78L) container

5-Gallon Pails
Base: 5 US Gal (18.92L) UN Pail
Activator: 5 US Gal (18.92L) UN Pail

Safety Precautions: Refer to SDS sheet before use. Safety precautions must be strictly followed during storage, handling and use. Copy of SDS can be found within Simiron.com.

Warranty:

Simiron warrants this product to be free from defect in the material that affects its performance for a period of one year (from date of purchase). Simiron will replace, at no charge, the quantity of the coating that Simiron determines has failed to perform, as the sole and exclusive remedy for any breach of this warranty and/or any other defect or failure of the coating. Proof of purchase is required. Cost of labor for application of any product specifically is excluded.

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