

## PRODUCT 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. **SIMIRON 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
- Controls Moisture Vapor Transmission up to 12 lbs. on a calcium chloride test per the current ASTM F1869 standard.
- Combine with decorative vinyl chips or quartz to create an attractive and durable finish.

## RECOMMENDED 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 DATA

### PHYSICAL DATA

Finish	High Gloss
Color	Haze Gray, Deck Gray, Sandstone
Components	2gal Base : 1gal Activator
Solids by Volume	100%
Solids by Weight	100%
Curing Mechanism	Chemical Reaction Between Components
VOC (EPA Method 24)	0 g/Liter
Mix Ratio	2 parts Base to 1 part Activator
DFT per Coat	Volume 10 to 30 mils (250 to 750 microns)

### FLASH POINT

Base	478°F	248°C
Activator	198°F	92°C

### THEORETICAL COVERAGE

10 mils (250 microns)	160 ft <sup>2</sup> /Gal	3.9 m <sup>2</sup> /Liter
20 mils (500 microns)	80 ft <sup>2</sup> /Gal	1.9 m <sup>2</sup> /Liter
30 mils (500 microns)	53 ft <sup>2</sup> /Gal	1.3 m <sup>2</sup> /Liter

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

### PERFORMANCE DATA

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 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.



# 1150FC INDUSTRIAL EPOXY FLOOR COATING

PRODUCT DATA SHEET  
Edition 09/2020  
Version 004  
30000262

## 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

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

	POT LIFE		
	Ⓐ 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 (Min.)	10 Hours	8 Hours	4 Hours
To Recoat (Max.)	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

## MIXING

SIMIRON 1150 FC is a two-component coating and proper mixing is required. Mix base thoroughly to disperse pigment before mixing with activator. Mix 2 parts 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.

## CLEAN UP

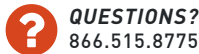
Clean brushes, rollers, tools and equipment with acetone or xylene and follow solvent manufacturer's safety instructions. Use "waterless" hand cleaner to remove dried material from skin

## PACKAGING

Size/Finish	Item Number
2 Gal 1150FC Base — HAZE GRAY	40002817
2 Gal 1150FC Base — SANDSTONE	40002831
1 Gal 1150FC Activator	40002800

## TECHNICAL ASSISTANCE

Information is available by calling SIMIRON:  
Toll Free: 1.866.515.8775 / Telephone: +1.248.686.3600



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## APPLICATION

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.

## 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

## TECHNICAL & SAFETY LITERATURE

To acquire additional information or technical and safety literature, please visit: [www.simiron.com](http://www.simiron.com)

## LIMITED WARRANTY

SIMIRON warrants this product to be free from defect in the material that affects its performance for a period of 10 years (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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