



TERRA-TREAD™ FC SERIES 205

PRODUCT PROFILE

GENERIC DESCRIPTION	Polyamide Epoxy
COMMON USAGE	A fast-cure, versatile coating that can be used as a penetrating primer or a general duty topcoat for protection against abrasion and mild chemicals. Can be applied in temperatures as low as 35°F (2°C).
COLORS	Available in the 16 standard StrataShield colors. Special colors available, please contact your Tnemec representative for special colors.
FINISH	Pigmented: Semi-gloss Clear: Gloss

COATING SYSTEM

PRIMERS	Concrete: Self-priming
TOPCOATS	Series 205, 206, 210, 280, 281, 290, 291, 295

SURFACE PREPARATION

HORIZONTAL CONCRETE	Prepare surfaces by method suitable for exposure and service, when self priming: Allow new concrete to cure 28 days. Verify dryness by testing for moisture with a "plastic film tape-down test." (Reference ASTM D 4263) Should moisture be detected, perform "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride." (Reference ASTM F 1869) Moisture content not to exceed three pounds per 1,000 sq ft in a 24 hour period. Acid-etch or mechanically abrade concrete to remove laitance and create profile. If acid-etching, no contaminants or surface additives/treatments such as form release agents, curing compounds, hardeners or sealers should be present in the surface of the concrete as they can impede the acid's ability to properly etch and profile the floor. If these conditions exist, mechanical preparation is the only recommended method to clean and profile the floor. Large voids, and other cavities should be filled with recommended filler or surfacer. (Reference SSPC-SP13/NACE 6, ICRI CSP1-3) Note: Shotblasting will leave a much heavier profile than acid-etching. In this case it is recommended that a higher mil primer such as 201 be applied to help fill and smooth the surface profile of the floor.
ALL SURFACES	Must be clean, relatively dry and free of oil, grease, curing compounds/sealers, hardeners and other contaminants. Application will tolerate residual dampness from surface preparation process but not puddled water, glistening concrete or inherently wet concrete.

TECHNICAL DATA

VOLUME SOLIDS	58.0 ± 2.0% (mixed) †
RECOMMENDED DFT	3.0 to 5.0 mils (75 to 125 microns) per coat. Note: As a stand alone system, two or more coats may be required.

CURING TIME

Temperature	To Topcoat	To Place in Service
75°F (24°C)	3-4 hours	6-8 hours
65°F (18°C)	5-6 hours	8-10 hours
55°F (13°C)	10-12 hours	12-14 hours
45°F (7°C)	16-18 hours	18-20 hours
35°F (2°C)	20-22 hours	24-28 hours

Curing time varies with surface temperature, air movement, humidity and film thickness.

VOLATILE ORGANIC COMPOUNDS

Unthinned: 2.93 lbs/gallon (351 grams/litre)
Thinned 5%: 3.12 lbs/gallon (373 grams/litre)
Thinned 10%: 3.29 lbs/gallon (394 grams/litre) †

THEORETICAL COVERAGE

930 mil sq ft/gal (22.8 m²/L at 25 microns). See APPLICATION for coverage rates. †

NUMBER OF COMPONENTS

Two: Part A and Part B (1 Part A component to 1 Part B component by volume.)

PACKAGING

5 gallon (18.9L) pails and 1 gallon (3.79L) cans—Order in multiples of 2.

NET WEIGHT PER GALLON

12.50 ± 0.25 lbs (5.67 ± .11 kg) †

STORAGE TEMPERATURE

Minimum 20°F (-7°C) Maximum 110°F (43°C)

TEMPERATURE RESISTANCE

(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)

SHELF LIFE

24 months at recommended storage temperature.

FLASH POINT - SETA

Part A: 82°F (28°C) Part B: 64°F (18°C)

HEALTH & SAFETY

Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Material Safety Data Sheet for important health and safety information prior to the use of this product.
Keep out of the reach of children.

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APPLICATION

COVERAGE RATES

Before commencing, obtain and thoroughly read the StrataShield Installation and Application Guide for floors.

	Dry Mills (Microns)	Wet Mills (Microns)	Sq Ft/Gal (m ² /Gal)
Suggested	3.0-5.0 (75-125)	5.0-8.5 (125-215)	186-310 (17.3-28.8)

Wet film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance. †

MIXING

Power mix contents of each container, making sure no pigment remains on the bottom. Pour a measured amount of Part B into a clean container large enough to hold both components. Add an equal volume of Part A to Part B while under agitation. Continue agitation until the two components are thoroughly mixed. Do not use mixed material beyond pot life limits. **Note:** Both components should be above 50°F (10°C) prior to mixing. For application to surfaces between 35°F to 50°F (2°C to 10°C), allow mixed material to stand thirty (30) minutes and restir before using. For optimum application properties, blended components should be above 60°F (16°C). **Note:** Mixing ratio is one to one by volume.

THINNING

Use No. 4 Thinner. For roller or brush, thin up to 5% or 1/4 pint (190 mL) per gallon.

POT LIFE

16 hours at 35°F (2°C) 2 hours at 75°F (24°C) 1/2 hour at 100°F (38°C)

APPLICATION EQUIPMENT

Roller: Use 3/8" or 1/2" (9.5 mm or 12.7 mm) synthetic nap covers.
Brush: Recommended for small areas only. Use high quality natural or synthetic bristle brushes.

SURFACE TEMPERATURE

Minimum 35°F (2°C) Maximum 135°F (57°C)
 The surface should be dry and at least 5°F (3°C) above the dew point. Coating will not cure below minimum surface temperature.

CLEANUP

Clean all equipment immediately after use with the recommended thinner or MEK.

† Values may vary with color.

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