



PRODUCT PROFILE

GENERIC DESCRIPTION Decorative Flake-Filled Modified Polyamine Epoxy

COMMON USAGE A customized decorative floor topping utilizing colored flake, broadcast either at random or refusal. Protects against abrasion and mild chemicals with an aesthetically pleasing speckled appearance.

COLORS Available in 12 standard colors. Refer to StrataShield Deco-Fleck color card. Custom colors also available. **Note:** Epoxies chalk and yellow with age, extended exposure to UV and artificial lighting. Lack of ventilation, incomplete mixing, miscatalyzation or the use of heaters that emit carbon dioxide and carbon monoxide during application and initial stages of curing may cause amine blush, possibly affecting adhesion of subsequent topcoats.

FINISH Decorative flake—multi-colored appearance. The finished appearance will depend on the number, type and film thickness of the clear finished coats selected.

COATING SYSTEM

SURFACER/FILLER/PATCHER Series 63-1500, 214, 218, 219. **Note:** A repair kit of 201, with Part C fumed silica, is available for small patching/surfacing repairs. For more extensive repairs and additional information, contact your Tnemec representative or Tnemec Technical Services.

PRIMERS **Concrete:** Series 205, 281, 287. **Note:** A color complementing the flake blend should be selected.

INTERMEDIATE **Random Flake Broadcast:** Series 224, 281, 291
Refusal Flake Broadcast: Series 224, 281

TOPCOATS **Random Flake Broadcast:** Series 224, 284, 285, 294, 295
Refusal Flake Broadcast: Series 224, 284, 285, 294, 295. **Note:** If Series 285, 294 or 295 is selected for the finish coat, an intermediate coat of Series 224 or 284 is required. Refer to the *StrataShield Installation and Application Guide* for floors.

SURFACE PREPARATION

Prepare surfaces by method suitable for exposure and service. Refer to the appropriate primer data sheet for specific recommendations.

CONCRETE 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. Abrasive blast or mechanically abrade to remove laitance, curing compounds, sealers and other contaminants and to provide surface profile. Large voids, spalls and other cavities should be filled with recommended filler or surfacer. (Reference SSPC-SP13/NACE 6, ICRI CSP1-5)

ALL SURFACES Must be clean, dry and free of oil, grease and other contaminants.

TECHNICAL DATA

VOLUME SOLIDS 100% (mixed)

RECOMMENDED DFT From 20 mils DFT to 1/16" depending on broadcast method.

CURING TIME

Temperature	Between Broadcasts/Topcoats	Place in Service
75°F (24°C)	12 to 24 hours	24 hours

VOLATILE ORGANIC COMPOUNDS **Unthinned:** 0.18 lbs/gallon (22 grams/litre)

THEORETICAL COVERAGE 1,604 mil sq ft/gal (39.4 m²/L at 25 microns). See APPLICATION for coverage rates.

NUMBER OF COMPONENTS Three—Liquids: Part A & Part B (2 Parts A to 1 Part B by volume). Colored Flake: Part C
The Part C colored flake is available from Tnemec or can be purchased from a different supplier.

PACKAGING

	PART A	PART B	Yield (mixed)
Extra Large Kit	2-55 gallon drums	1-55 gallon drum	165 gallons
Large Kit	2-5 gallon pails	1-5 gallon pail	15 gallons
Small Kit	2-1 gallon cans	1-1 gallon can	3 gallons

NET WEIGHT PER GALLON 9.33 ± 0.25 lbs (4.23 ± .11 kg) (mixed)

STORAGE TEMPERATURE Minimum 40°F (4°C) Maximum 90°F (32°C)

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

SHELF LIFE 12 months at recommended storage temperature.

FLASH POINT - SETA N/A

HEALTH & SAFETY This product contains 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.

DECO-FLECK® | SERIES 224

APPLICATION

COVERAGE RATES	<p>Before commencing, obtain and thoroughly read the <i>StrataShield Installation and Application Guide</i> for floors.</p> <p>The mixed liquids (Part A and B) are spread at a rate of 160 sq ft (3.94 m²/L) per gallon or approximately 10 mils (255 microns) wet.</p> <p>Broadcast Randomly: This technique provides a “speckled” appearance and allows the primer color to show through. Broadcast evenly across the floor at around 1 lb per 100 sq ft without completely covering the underlying primer.</p> <p>Broadcast to Refusal: Apply the flake until no liquids are showing on the surface at a rate of 4 to 5 sq ft per lb. When rejection is achieved, the flake on top will appear dry. Spike (golf) shoes may be worn to walk into the wet surface that has not yet been broadcast. Rebroadcasting areas that “wet-out” may be required.</p>
MIXING	<p>Use a variable speed drill with a PS Jiffy blade. Slowly mix 2 parts A component, and while under agitation add 1 part B component and mix for a minimum of two minutes. Ensure that all Part B is blended with Part A by scraping the pail walls with a flexible spatula.</p> <p>Note: A large volume of material will set up quickly if not applied or reduced in volume.</p> <p>Caution: Do not reseal mixed material. An explosion hazard may be created.</p>
THINNING	Do not thin.
POT LIFE	25 to 30 minutes at 75°F (24°C)
APPLICATION EQUIPMENT	Roller, squeegee and/or trowel. For detailed instructions, refer to the <i>StrataShield Installation and Application Guide</i> for floors.
SURFACE TEMPERATURE	Minimum of 55°F (13°C), optimum 65°F to 80°F (18°C to 27°C), maximum of 90°F (32°C). The substrate temperature should be at least 5°F (3°C) above the dew point.
MATERIAL TEMPERATURE	For optimum application, handling and performance, the material temperature during application should be between 70°F and 90°F (21°C and 32°C). Temperature will affect the workability. Cool temperatures increase viscosity and decrease workability. Warm temperatures will decrease viscosity and shorten pot life.
CLEANUP	Flush and clean all equipment immediately after use with xylene or MEK.

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