



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 206, 215. **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 201, 205, 208, 237, 238, 241, 287. **Note:** A color complimenting 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, 247, 248, 284, 285, 286, 294, 295, 296  
**Refusal Flake Broadcast:** Series 224, 247, 248, 256, 284, 285, 286, 294, 295, 296.  
**Note:** If Series 247, 248, 285, 294, 295 or 296 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

**CONCRETE** Prepare surfaces by method suitable for exposure and service. Refer to the appropriate primer data sheet for specific recommendations.  
Allow new poured-in-place concrete to cure a minimum of 28 days at 75°F (24°C). Verify concrete dryness in accordance with ASTM F 1869 “Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride” (moisture vapor transmission should not exceed three pounds per 1,000 square feet in a 24 hour period), F 2170 “Standard Test Method for Determining Relative Humidity in Concrete using in situ Probes” (relative humidity should not exceed 80%), or D 4263 “Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method” (no moisture present). **Note:** The testing listed above cannot guarantee avoidance of future moisture related problems particularly with existing concrete slabs. This is especially true if the use of an under slab moisture vapor barrier cannot be confirmed or concrete contamination from oils, chemical spills, unreacted silicates, chlorides or Alkali Silica Reaction (ASR) is suspected.

Prepare concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Abrasive blast, shot-blast, water jet or mechanically abrade concrete surfaces to remove laitance, curing compounds, hardeners, sealers and other contaminants and to provide a minimum ICRI-CSP 3 or greater surface profile. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer. **Note:** For moisture content exceeding 3 lbs per 1,000 sq ft or relative humidity in excess of 80%, Series 208 or 241 may be substituted for the primer. Refer to the Series 208 or 241 product data sheet for more information.

**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	To Topcoat/Broadcast	To Place in Service
75°F (24°C)	12 to 24 hours	24 hours

**Note:** If more than 24 hours have elapsed between coats, the coated surface must be mechanically abraded before topcoating. **Note:** There is no maximum recoat time if flake has been broadcast to refusal into the preceding coat. Curing time varies with surface temperature, air movement, humidity and film thickness.

VOLATILE ORGANIC COMPOUNDS

**Unthinned:** 0.13 lbs/gallon (15 grams/litre)

THEORETICAL COVERAGE

1,604 mil sq ft/gal (39.4 m<sup>2</sup>/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

# DECO-FLECK® | SERIES 224

**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.**

## APPLICATION

**COVERAGE RATES** Before commencing, obtain and thoroughly read the StrataShield Installation and Application Guide for floors.  
 The mixed liquids (Part A and B) are spread at a rate of 160 sq ft (3.94 m<sup>2</sup>/L) per gallon or approximately 10 mils (255 microns) wet.  
**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.  
**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.

**MIXING** 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.  
**Note:** A large volume of material will set up quickly if not applied or reduced in volume.  
**Caution: Do not reseal mixed material. An explosion hazard may be created.**

**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 StrataShield Installation and Application Guide 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. To avoid outgassing, concrete temperature should be stabilized or in a descending temperature mode. Material should not be applied in direct sunlight.

**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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