



TNEME-GLAZE SERIES 281

PRODUCT PROFILE

GENERIC DESCRIPTION Modified Polyamine Epoxy

COMMON USAGE A high-gloss, glaze-like coating for concrete floors. It imparts a smooth, aesthetically pleasing finish in a variety of colors, while providing protection against various acids and alkalis, abrasion and frequent cleaning.

COLORS Available in the 16 standard StrataShield colors. Special colors available, please contact your Tnemec representative. **Note:** Epoxies chalk and yellow with age, extended exposure to UV and artificial lighting. Caution should be taken when selecting white and light pastel colors. 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 Gloss

COATING SYSTEM

SURFACER/FILLER/PATCHER Series 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 Floors:** Self-priming or Series 201, 205, 208, 237, 238, 241.

INTERMEDIATE Series 210, 237, 238, 281

TOPCOATS Series 247, 248, 280, 281, 290, 291, 294, 295, 296, 297

SURFACE PREPARATION

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

HORIZONTAL CONCRETE 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 6.0 to 12.0 mils (150 to 305 microns) per coat. Additional coats may be required for appearance or hiding.

CURING TIME

Temperature	To Topcoat	To Place in Service
75°F (24°C)	10-24 hours	24 hours

Note: If more than 24 hours have elapsed between coats, the coated surface must be mechanically abraded before topcoating.

VOLATILE ORGANIC COMPOUNDS **Unthinned:** 0.06 lbs/gallons (8 grams/litre)
Thinned 5% (No. 2 Thinner): 0.41 lbs/gallons (49 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 Two: Part A and Part B (2 Parts A to 1 Part B by volume)

	PART A (Partially filled)	PART B (Partially filled)	When Mixed
Large Kit	2-5 gallon pails	1-5 gallon pail	15 gallons (56.8 L)
Small Kit	2-1 gallon cans	1 gallon can	3 gallons (11.4 L)

NET WEIGHT PER GALLON 11.57 ± 0.25 lbs (5.25 ± .11 kg) mixed †

STORAGE TEMPERATURE Minimum 40°F (4°C) Maximum 90°F (32°C)
Note: Material should be stored at temperatures between 70°F and 90°F (21°C and 32°C) for at least 48 hours prior to use.

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.

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APPLICATION

COVERAGE RATES

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

	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m ² /Gal)
Horizontal	6.0-12.0 (150-305)	6.0-12.0 (150-305)	134-267 (12.4-24.8)

Allow for surface irregularities. 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

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. Apply the mixed material within pot life limits after agitation.

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

Normally not required. May thin up to 5% or 6.4 ounces (190 mL) per gallon with No. 2 Thinner to improve application properties.

POT LIFE

45 to 50 minutes at 70°F (21°C) 35 to 40 minutes at 80°F (27°C) 25 to 30 minutes at 90°F (32°C)

Material temperatures above 90°F (32°C) will significantly reduce the pot life.

APPLICATION EQUIPMENT

Brush, roller and squeegee. (Squeegee and backroll. Brush small areas only.)

Roller: Use high quality 3/8" to 1/2" nap, shed resistant, synthetic woven nap roller cover.

Brush: Use high quality synthetic or nylon bristle brush.

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.

† Values may vary with color.

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