



TNEME-GLAZE SERIES 280

PRODUCT PROFILE

- GENERIC DESCRIPTION** Modified Polyamine Epoxy
- COMMON USAGE** A glaze-like corrosion resistant coating for walls, ceilings, floors and other surfaces; resistant to frequent pressurized hot water and detergent cleaning. Used as a topcoat/sealer for heavy duty wall and floor systems or in a stand-alone high-performance function. Excellent chemical, stain- and abrasion-resistance for a variety of substrates.
- 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. (Roller application provides an orange peel finish.)

COATING SYSTEM

- SURFACER/FILLER/PATCHER** Series 130, 215, 218, 1254. **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:** Self-priming or Series 27WB, 201, 203, 205, 237, 238. **Note:** Self-priming is not recommended when used as a horizontal floor coating.
CMU: Self-priming over filled CMU
Wood & Drywall: Self-priming or Series 201, 203
- INTERMEDIATE TOPCOATS** Series 210, 237, 237SC, 238, 270, 273, 280
Series 73, 280, 290, 291, 294, 295, 297, 1074, 1075, 1080, 1081

SURFACE PREPARATION

- HORIZONTAL CONCRETE** Prepare surfaces by method suitable for exposure and service. Refer to the appropriate primer data sheet for specific recommendations.
Allow new cast-in-place concrete to cure a minimum of 28 days at 75°F (24°C). Verify concrete dryness and prepare concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Moisture vapor transmission should not exceed three lbs per 1,000 sq ft in a 24 hour period. (Reference ASTM F 1869 "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.") Relative humidity should not exceed 80%. (Reference ASTM F 2170 "Standard Test Method for Determining Relative Humidity in Concrete using in situ Probes.") **Note:** For moisture content up to 10 lbs per 1,000 sq ft or relative humidity up to 90%, Series 241 may be substituted for the primer. Refer to the Series 241 product data sheet for more information.
- VERTICAL CONCRETE** Abrasive blast, shot-blast or mechanically abrade concrete surfaces to remove laitance, curing compounds, hardeners, sealers and other contaminants and to provide an ICRI-CSP 3-5 surface profile. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer.
When self-priming: Allow new concrete to cure 28 days. Abrasive blast or mechanically abrade concrete to remove laitance, form release agents, curing compounds, hardeners, sealers and other contaminants and to provide surface profile. (Reference SSPC-SP13)
- CMU** When self-priming: Allow new mortar to cure 28 days. Surfaces must be clean, dry, sound and free of all contaminants. Level all protrusions and mortar spatter. For pinhole free surface, use recommended surfacer/filler/patcher.
- ALL SURFACES** Must be clean, dry and free of oil, grease and other contaminants.

TECHNICAL DATA

- VOLUME SOLIDS** 100% (mixed) †
- RECOMMENDED DFT** **Horizontal:** 6.0 to 12.0 mils (150 to 305 microns) per coat.
Vertical: 4.0 to 8.0 mils (100 to 205 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)	8-24 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:** 0.19 lbs/gallon (22 grams/litre)
Thinned 5% (No. 2 Thinner): 0.52 lbs/gallon (63 grams/litre)
Thinned 5% (No. 42 Thinner): 0.50 lbs/gallon (59 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)

PACKAGING	PART A	PART B	When Mixed
	Large Kit	2-5 gallon pails	1-5 gallon pail
Small Kit	2-1 gallon cans	1-1 gallon pail	3 gallons (11.4 L)

- NET WEIGHT PER GALLON** 11.85 ± 0.25 lbs (5.37 ± .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)

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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.

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)	131-267 (12.2-24.8)
Vertical	4.0-8.0 (100-205)	4.0-8.0 (100-205)	200-401 (18.6-37.3)

Allow for overspray, surface irregularities and waste. 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 to improve application properties. Brush and roll application use No. 2 Thinner. Spray application use No. 42 Thinner.

POT LIFE 25 to 30 minutes at 70°F (21°C) 15 to 20 minutes at 80°F (27°C) 8 to 10 minutes at 90°F (32°C)
 Increasing material temperatures will significantly reduce the pot life.

APPLICATION EQUIPMENT Brush, roller, squeegee and airless spray.

Airless Spray

Pump	Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
Graco "King" 45:1 or 56:1	0.019"-0.033" (485-840 microns)	80-90 psi (5.5-6.2 bar)	3/8" to 1/2" (9.5 to 12.7 mm)	60 mesh (250 microns)

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

Brush: Use high quality synthetic or nylon bristle brush.

Horizontal: Squeegee and backroll. Brush small areas only.

Vertical: Roll or spray and backroll. Brush small areas only. **Spraying should only be considered as a means to transfer the material to the surface and should be followed by backrolling.**

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 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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