



# EPOXOPRIME® MVT SERIES 208

## PRODUCT PROFILE

<b>GENERIC DESCRIPTION</b>	Modified Polyamine Epoxy
<b>COMMON USAGE</b>	Epoxoprime MVT is a unique, moisture-tolerant, two component, low viscosity, high solids epoxy primer designed to reduce moisture vapor emissions and provide alkalinity control for concrete with elevated moisture vapor transmission levels that exceed the acceptable limits of non-breathing resilient and polymer floor topping finishes. Epoxoprime MVT can be applied to properly prepared, 10 day old concrete and withstands moisture vapor transmission up to 15 lbs (per ASTM F 1869) and relative humidity up to 95% (per ASTM F 2170). Epoxoprime MVT has a low perm rating (0.05 perm) and is alkaline insensitive to pH levels of 14.
<b>COLORS</b>	Clear. Can be field-tinted (Series 820 Field Tint) in 16 StrataShield colors and certain custom colors. Contact your Tnemec representative for additional information. <b>Note:</b> 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 blushing to occur.
<b>SPECIAL QUALIFICATIONS</b>	Series 208 was tested in accordance with, and passed, the California Department of Public Health CDPH/EHLB/Standard Method Version 1.1, 2010 emissions testing and meets qualifications of LEED v4, Collaborative for High Performance Schools, and Living Building Challenge.

## COATING SYSTEM

<b>SURFACER/FILLER/PATCHER</b>	Series 208 mixed with fumed silica may be used for small patches or crack repairs. Certain high-early strength, cementitious repair mortars are also acceptable for deeper filling and patching. Contact Tnemec for further qualifications.
<b>TOPCOATS</b>	Series 201, 205, 206, 206SC, 210, 222, 223, 224, 233, 237, 237SC, 238, 239, 239SC, 247, 248, 280, 280FC, 281, 282, 290, 291, 294, 295, 296, 297. <b>Note:</b> Refer to the applicable topcoat data sheet for color availability and additional information. <b>Note:</b> If Series 247 (tinted), 248 (tinted), 290, 291 or 297 is selected for the finish coat, Series 208 must be tinted or a tinted intermediate coat must be utilized.

## SURFACE PREPARATION

<b>CONCRETE</b>	<p>Allow new poured-in-place concrete to cure a minimum of 10 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 15 lbs 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 95%). <b>Note:</b> 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.</p> <p>Prepare concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Shot-blast or mechanically abrade concrete surfaces to remove laitance, curing compounds, hardeners, sealers and other contaminants and to provide a ICRI-CSP 3-4 surface profile. For best performance of the Epoxoprime MVT primer, the target surface profile is a CSP3. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer. <b>Note:</b> Surface preparation that exceeds published recommendations can result in voids in the concrete and can create deep pockets where air bubbles are trapped as the Series 208 Epoxoprime MVT epoxy hardens. This may result in the formation of fish-eyes, pinholes, blisters and other defects which can compromise the effectiveness of the Epoxoprime MVT coating to block moisture. Additionally, the necessary film thickness of 80-100 sq. ft per gallon cannot be achieved on concrete that is rough and highly textured due to overly aggressive blasting.</p>
<b>ALL SURFACES</b>	<p>Must be clean, dry and free of oil, grease, amine blush and other contaminants. Do not apply over existing coatings. <b>Note:</b> Substrate conditions which can adversely affect the performance of Series 208 Epoxoprime MVT include: concrete that is structurally unsound, wet, damp, contaminated, or inadequately profiled at the time of application, absent or inadequate under slab moisture vapor barrier, hydrostatic pressure, ASR, and migration of oils, chemicals, and other contaminants.</p>

## TECHNICAL DATA

<b>VOLUME SOLIDS</b>	100% (mixed)
<b>RECOMMENDED DFT</b>	16.0 to 20.0 mils (406 to 508 microns) per coat. <b>Note:</b> The potential for outgassing increases with higher film thickness. Care should be taken during application to reduce these occurrences. Reference the application section of this product datasheet for important information on environmental requirements.

### CURING TIME

Temperature	To Topcoat	Max Recoat
75°F (24°C)	6-8 hours	24 hours

**Note:** If more than 24 hours have elapsed between coats, the coated surface must be mechanically abraded before topcoating. **Note:** If Series 208 is used as the primer for an epoxy mortar system, the 208 primer must be reprimed with Series 201 or 237 prior to placing the mortar. The mortar application should take place while the Series 201 or 237 is still tacky, typically up to four hours, otherwise, aggregate should be lightly broadcast into the 201 or 237 primer while wet so to provide anchor points for the trowel application. Do **not** broadcast aggregate into the Series 208 Epoxoprime MVT.

### VOLATILE ORGANIC COMPOUNDS

0.09 lbs/gallon (11 grams/litre)

### HAPS

0.0 lbs/gal solids

### 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

Two: Part A and Part B (2 Parts A to 1 Part B by volume)

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PACKAGING	Part A	Part B	Yield (mixed)
Large Kit	2-5 gallon pails	1-5 gallon pail	15 gallons (57 L)
Small Kit	2-1 gallon cans	1-1 gallon can	3 gallons (11 L)

**Colorant:** Series 820 field applied colorants are available in quart and gallon containers from Tnemec in 16 StrataShield colors and certain custom colors. Colorants should be added at a maximum rate of 4 oz. per gallon of mixed clear liquids.  
**Note:** Color consistency and hiding may vary based on the color selected and amount of colorant used.

- NET WEIGHT PER GALLON** 9.0 ± 0.25 lbs (4.08 ± .11 kg)
- 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 temperature.
- FLASH POINT - SETA** >230°F (110°C)
- 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	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m <sup>2</sup> /Gal)
Horizontal	16.0-20.0 (406-508)	16.0-20.0 (406-508)	80-100 (7.5-9.3)

Film thickness is rounded to the nearest 0.5 mil or 5 microns. Application of coating below minimum or above maximum dry film thicknesses may adversely affect coating performance. **Important:** Always inspect hardened Epoxoprime MVT primer to ensure it is a continuous, adequately thick membrane free of visible defects. Properly applied Epoxoprime MVT should have a glasslike, smooth, glossy surface free of pinholes, bubbles, ridges, or other defects. Rougher concrete or applications resulting in pinholes or voids in the film will require a second coat.

- 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.**  
**Field Colorant:** Mix thoroughly using a variable speed drill with a PS Jiffy blade at a maximum rate of 4 oz. per gallon of mixed liquids.

**THINNING** Do not thin.

**POT LIFE** 15 minutes at 75°F (24°C)

**APPLICATION EQUIPMENT** Squeegee and backroll. Brush small areas only.

**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.** **Note:** Do not apply in direct sunlight. Material must be applied when surface temperatures are stable or in a descending pattern to prevent or help reduce the potential for outgassing to occur.

**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.

**CAUTION** **All material and surfaces to be coated must be kept dry. Do not apply when wet weather or wet conditions may occur within 4 hours of application. Do not apply in direct sunlight. Material must be applied when surface temperatures are stable or in a descending pattern to prevent or help reduce the potential for outgassing.**

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Tnemec Company Inc. 6800 Corporate Drive Kansas City, Missouri 64120-1372 1-800-TNEMEC1 Fax: 1-816-483-3969 www.tnemec.com