PRODUCT PROFILE

GENERIC DESCRIPTION
Modified Polyamine Fast-Cure Epoxy

COMMON USAGE
A multi-purpose epoxy coating that can be used as a primer, broadcast, slurry/broadcast, mortar, grout coat, and topcoat. Excellent application properties with good flow and self-leveling characteristics. Protects concrete surfaces from impact, abrasion and mild chemicals.

COLORS
Clear or pigmented. Can be factory or field-tinted (Series 820 Field Tint) in 16 StrataShield colors and certain custom colors. Contact your Tnemec representative for additional information. 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.

COATING SYSTEM

SURFAKER/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
Self-priming or Series 201, 208, 241

TOPOATS
Series 237, 238, 247, 248, 252SC, 256, 280, 281, 282, 284, 285, 286, 287, 290, 291, 294, 295, 296, 297. Note: If Series 247 (tinted), 248 (tinted), 290, 291 or 297 is selected for the finish coat over a broadcast system, a grout coat of Series 237 or 258 (tinted), 256 (tinted), 280 or 281 is required. If Series 247 (clear), 248 (clear), 285, 294, 295 or 296 is selected for the finish coat over a broadcast system, a grout coat of Series 237 or 258 (clear), 256 (clear) or 284 is required.

SURFACE PREPARATION

CONCRETE
Prepare surfaces by method suitable for exposure and service. Refer to the appropriate primer data sheet for specific recommendations. When self priming:

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 Slabfloor 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 5 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 5 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
Primer: 6.0 to 12.0 (150-305 microns) per coat
Broadcast: 1/16” to 1/8” (Double broadcast or slurry broadcast required to achieve 1/8”)
Mortar: Suggested 1/4” (Minimum of 1/8”, Maximum of 1”)
Grout coat: 8.0 to 16.0 mils (203 to 406 microns)
Intermediate or Topcoat: 8.0 to 16.0 mils (203 to 406 microns)

CURING TIME

<table>
<thead>
<tr>
<th>Temperature</th>
<th>To Topcoat/Broadcast</th>
<th>To Place in Service</th>
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<tbody>
<tr>
<td>75°F (24°C)</td>
<td>4 to 8 hours</td>
<td>16 hours</td>
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Note: If more than 8 hours have elapsed between coats, the coated surface must be mechanically abraded before topcoating. Note: There is no maximum recoat time if aggregate 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: 0.26 lbs/gallon (31 grams/litre)
Thinned 5% (No. 2 Thinner): 0.37 lbs/gallon (71 grams/litre)

HAPS
Unthinned: 0.0 lbs/gal solids
Thinned 5% (No. 2 Thinner): 0.37 lbs/gal solids

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

NUMBER OF COMPONENTS
Liquids–Two: Part A and Part B (2 parts A to 1 part B by volume)

Field Colorant–One (optional) (Series 820)
Note: Aggregate for mortar applications (S238-0301C) is available from Tnemec or can be purchased from an approved supplier.

Published technical data and instructions are subject to change without notice. The online catalog at www.tnemec.com should be referenced for the most current technical data and instructions or you may contact your Tnemec representative for current technical data and instructions.
APPLICATION

**Flash Point - Seta**

<table>
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<tr>
<th>Application</th>
<th>Temperature</th>
<th>Storage Temperature</th>
<th>Surface Temperature</th>
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<tbody>
<tr>
<td>(Dry) Continuous</td>
<td>250°F (121°C)</td>
<td>Minimum 50°F (10°C)</td>
<td>Maximum 90°F (32°C)</td>
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<tr>
<td>Intermittent</td>
<td>275°F (135°C)</td>
<td>Minimum 50°F (10°C)</td>
<td>Maximum 90°F (32°C)</td>
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**Net Weight Per Gallon**

- Minimum 9.07 ± 0.25 lbs (4.11 ± .11 kg) mixed
- 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.

**SHELF LIFE**

- N/A
- 12 months at recommended storage temperature.

**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.

**Cleaning**

- Clean all equipment immediately after use with xylene or MEK.

**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 rate of 4 oz. to 8 oz. per gallon of mixed liquids.
- Aggregate: Use an appropriate type mortar aggregate and slowly blend Part C aggregate thoroughly with properly proportioned Part A and Part B mixed liquids. The Part C aggregate is based on a nominal amount calculated at 60 to 80 lbs per gallon mixed or a 6.5 to 1 – 9.0 to 1 (rock to resin) ratio by weight. Note: Drier mixes typically used for power trowel application should be grouted prior to finish coating. 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.

**Grout coat**

- 8.0 to 16.0 dry mils (203 to 406 microns) 8.0 to 16.0 wet mils (203 to 406 microns) 100-201 sq. ft/gal (9.3-18.6 m²)

**Intermediate or Topcoat**

- 6.0-12.0 dry mils (150-305 microns) 6.0-12.0 wet mils (150-305 microns) 134-267 sq ft/gal (12.2-24.3 m²)

**Coverage Rates**

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

**Power-Tread**

- 6.0-12.0 dry mils (150-305 microns) 6.0-12.0 wet mils (150-305 microns) 154-207 sq ft/gal (12.2-24.3 m²)

**Broadcast Application**

- For broadcast or slurry/broadcast applications purchase clean, dry, bagged 4.0 (30/50 mesh) Flint Shot, silica sand or approved equal.
- Tnemec ChromaQuartz or approved equal can be substituted for decorative quartz applications. The aggregate is calculated at one-half pound per sq ft (2.4 kg/m²) per 1/16” broadcast application or one pound per sq ft (4.8 kg/m²) for a 1/8” double broadcast.

- Additional aggregate is required to accommodate for waste or loss during application or to make coving material.

**Mortar Application**

- The Part C mortar aggregate (S238-0301C) is based on a nominal amount calculated at 60-80 lbs. per gallon when mixed or a 6.5 to 1 – 9.0 to 1 (rock to resin) ratio by weight. Part C mortar aggregate purchased from Tnemec is packaged in 50 lb. bags.

**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 4 oz. to 8 oz. per gallon of mixed clear liquids for intermediate or base coats and up to 8 oz. per gallon for finish coats. Note: Color consistency may vary based on amount of colorant used.

**Clean-Up**

- Clean all equipment immediately after use with xylene or MEK.
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