POWER-TREAD® SERIES 237

PRODUCT PROFILE

**GENERIC DESCRIPTION**
Modified Polyamine 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:** Epoxy 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**

**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**
Self-priming or Series 201, 208, 238, 241

**TOPCOATS**
Series 206, 206SC, 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 257 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 257 or 258 (clear), 256 (clear) or 284 is required.

**SURFACE PREPARATION**

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

**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 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.

Must be clean, dry and free of oil, grease and other contaminants.

**ALL SURFACES**
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.

**TECHNICAL DATA**

**VOLUME SOLIDS RECOMMENDED DFT**
100% (mixed)

**CURING TIME**
<table>
<thead>
<tr>
<th>Temperature</th>
<th>To Topcoat/Broadcast</th>
<th>To Place in Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>75°F (24°C)</td>
<td>12 to 24 hours</td>
<td>24 hours</td>
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**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 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**

**HAPS**

**Theoretical Coverage**

**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 (S237-0301C) is available from Tnemec or can be purchased from an approved supplier.

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Broadcast Application: For broadcast or slurry/broadcast applications purchase clean, dry,bugged 4.0 (50/50 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 (S237-0301C) 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 and hiding may vary based on the color selected and amount of colorant used.

**Application**

Coverage Rates

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

**Prime**

6.0 to 12.0 dry mls (150 to 305 microns) 6.0 to 12.0 wet mls (150-305 microns) 154-267 sq. ft/gal (12.2-24.3 m²)

**Broadcast Application:** The mixed liquids (Part A and B) are spread at a rate of 80 sq ft (7.4 m²) per gallon or approximately 20 mls (510 microns) wet. The aggregate is then broadcast into the liquid until a uniformly dry appearance is obtained. Each broadcast layer will result in a thickness of approximately 1/16" (1.6 mm). After the first broadcast layer cures, the excess aggregate must be removed and a second application repeated to obtain an approximate thickness of 1/8" (3.2 mm).

**Mortar Application:** The mixed liquids (Part A and B) and aggregate (Part C) are spread at a rate of approximately 25 to 35 sq ft per gallon at a thickness of 1/4" based on 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 grooved 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 mls (205 to 406 microns) 8.0 to 16.0 wet mls (205 to 406 microns) 100-201 sq. ft/gal (9.3-18.6 m²)

**Intermediate or Topcoat:** 8.0 to 16.0 dry mls (205 to 406 microns) 8.0 to 16.0 wet mls (205 to 406 microns) 100-201 sq. ft/gal (9.3-18.6 m²)

Mixing

Use a variable speed drill with a PS Jiffy blade. Slowly mix 2 parts A component, and while 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.

**Aggregate:** Use an appropriate type mortar mixer 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.

**Thin or Pot Life:** Normally not required. May thin up to 5% with No. 2 Thinner as needed.

**Coating Retention at 80°F (27°C):**

8.0 to 16.0 dry mls (205 to 406 microns) 8.0 to 16.0 wet mls (205 to 406 microns) 100-201 sq. ft/gal (9.3-18.6 m²)

**Intermediate or Topcoat Retention at 80°F (27°C):**

8.0 to 16.0 dry mls (205 to 406 microns) 8.0 to 16.0 wet mls (205 to 406 microns) 100-201 sq. ft/gal (9.3-18.6 m²)

**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 set up quickly if not applied or reduced in volume.

**Cleanup:**

Flush and clean all equipment immediately after use with xylene or MEK.

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**Product Data Sheet**

**Power-Tread® | Series 237**