PRODUCT PROFILE

MODIFIED NOVOLAC POLYAMINE EPOXY

A chemical resistant, multi-purpose novolac 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, incorrect mixing, catalyzation 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. Caution: Novolacs will stain with extended exposure to certain acids. As a result, darker colors are recommended.

PREPARATION

CONCRETE

Prepare 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

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 (205 to 406 microns)
Intermediate or Topcoat: 8.0 to 16.0 mils (205 to 406 microns)

CURING TIME

<table>
<thead>
<tr>
<th>Temperature</th>
<th>To Topcoat/Broadcast</th>
<th>To Place in Service</th>
<th>Full Cure</th>
</tr>
</thead>
<tbody>
<tr>
<td>75°F (24°C)</td>
<td>12 to 24 hours</td>
<td>24 hours</td>
<td>5 days</td>
</tr>
</tbody>
</table>

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. Note: 24 hour cure provides for traffic, secondary containment and certain mild chemical exposures. Up to five days cure is required for certain severe chemical exposures. Contact your Tnemec representative or Tnemec Technical Services.

Curing time varies with surface temperature, air movement, humidity and film thickness.

VOLATILE ORGANIC COMPOUNDS

Unthinned: 0.013 lbs/gallon (1.5 grams/litre)
Thinned 5% (No. 2 Thinner): 0.07 lbs/gallon (0.075 grams/litre)

HAPS

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

THEORETICAL COVERAGE

1,604 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)
Field Colorant-One: (optional) (Series 820)

Note: Aggregate for mortar applications (S239-0301C) is available from Tnemec or can be purchased from an approved supplier.
APPLICATION

**Flash Point - Seta**: 
9.30 ± 0.25 lbs (4.22 ± .11 kg) (Parts A & B mixed)

**Net Weight Per Gallon**: 
Minimum 50°F (10°C) Maximum 90°F (32°C)

**Storage Temperature**: 
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 300°F (149°C) Intermittent 325°F (163°C)

**Shelf Life**: 
N/A

**Material**: 
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.**

**Coverage Rates**

- **Primer**: 6.0-12.0 dry mils (150-305 microns) 6.0-12.0 wet mils (150-305 microns) 134-207 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 mils (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.

**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.

**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 A is blended with Part B by scraping the pail walls with a flexible spatula.
- **Caution**: Do not reseal mixed material. An explosion hazard may be created.

**Finishing**

- Normally not required. May thin up to 5% with No. 2 Thinner as needed.

**Pot Life**

- 30 to 35 minutes at 75°F (24°C)

**Application Equipment**

- **Primer, Grout, Intermediate or Topcoat**: Brush, roller, squeegee, trowel. Brush small areas only.
- **Broadcast, slurry broadcast**: Roller, squeegee, trowel.
- **Mortar**: Screed, hand or power trowel.

**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. Coating will not cure below minimum surface temperature. 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.

### Packaging

<table>
<thead>
<tr>
<th>EXTRA LARGE KIT</th>
<th>PART A</th>
<th>PART B</th>
<th>Yield (mixed)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-55 gallon drums</td>
<td>1-55 gallon drum</td>
<td>165 gallons</td>
<td></td>
</tr>
<tr>
<td>2-5 gallon pails</td>
<td>1-5 gallon pail</td>
<td>15 gallons</td>
<td></td>
</tr>
<tr>
<td>1-1 gallon can</td>
<td>2-1 gallon can</td>
<td>5 gallons</td>
<td></td>
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</tbody>
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