Modified Polyamine Epoxy

Series 215ML is a trowel applied, fiberglass mat reinforced, 100% solids polyamine epoxy used as part of a lining system for potable and non-potable ultra-filtration membrane process, backwash, and neutralization basins.

1,200 White, 1,212 Gray

Certified by NSF International in accordance with NSF/ANSI Std. 61. Ambient cured Series 215 is qualified for use on the interior of potable water storage tanks and reservoirs of 200 gallons (757 L) capacity or greater at 95 mils DFT with fiberglass mat. Return to immersion is seven days. Contact your Tnemec representative for approved systems and additional information on potential uses.

Self-patching or Series 217, 218

Concrete: Series L140F, N140F, V140F. Note: Series L140F, N140F, and V140F have a maximum recoat time of 7 days when topcoating with Series 215ML. If the maximum recoat time is exceeded, the coating surface must be uniformly scarified by abrasive blasting with fine abrasive before application of Series 215ML.

Series 211-0215

Series 22

Series 22

All surfaces

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

100% (Mixed) †

60.0 to 80.0 mils (1524 to 2032 microns)

<table>
<thead>
<tr>
<th>Temperature</th>
<th>To Touch</th>
<th>Dry Through</th>
<th>Maximum to Recoat ‡</th>
</tr>
</thead>
<tbody>
<tr>
<td>95°F (35°C)</td>
<td>4 hours</td>
<td>12 hours</td>
<td>14 days</td>
</tr>
<tr>
<td>75°F (24°C)</td>
<td>10 hours</td>
<td>24 hours</td>
<td>21 days</td>
</tr>
<tr>
<td>55°F (13°C)</td>
<td>18 hours</td>
<td>48 hours</td>
<td>21 days</td>
</tr>
<tr>
<td>45°F (7°C)</td>
<td>24 hours</td>
<td>72 hours</td>
<td>21 days</td>
</tr>
<tr>
<td>35°F (2°C)</td>
<td>32 hours</td>
<td>96 hours</td>
<td>21 days</td>
</tr>
</tbody>
</table>

† Note: If the Series 215ML surface is exterior exposed for more than seven days, scarification is required before topcoating.

Unthinned: 0.08 lbs/gal solids (10 grams/litre) †

Unthinned: 0.0 lbs/gal solids

1,600 mil sq ft/gal (39.4 m²/L at 25 microns). See APPLICATION for coverage rates. †

Three: Liquids Part A (amine), Part B (epoxy), Fiberglass Reinforcing Mat Part C (S211-0215)

TOUCH-UP KIT

3 gal. pail (partial fill) 4 hours 12 hours 14 days

1 gallon can 9 hours 21 hours

1/2 gallon (1.89L) 24 hours 21 days

PART A

Large Kit 5 gal. pail (partial fill) 5 gal. pail (partial fill) 4 gallons (15L)

Small Kit 1 gallon can 5 gal. pail (partial fill) 2 gallons (7.5L)

Touch-Up Kit 1 quart can 1 quart can 1/2 gallon (1.89L)

The fiberglass reinforcing mat (S211-0215) is ordered separately from liquids and is calculated per sq ft based on a 38 in x 500 ft (1583 sq ft) roll. Available in full rolls only.

13.28 ± 0.25 lbs (6.02 ± .11 kg) (mixed) †

Minimum 20°F (−6°C) Maximum 110°F (43°C)

Prior to application, the material temperature should be between 70°F and 80°F (21°C and 27°C). It is suggested the material be stored at these temperatures at least 48 hours prior to use.

(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)

12 months at recommended storage temperature.

Net Weight Per Gallon

13.28 ± 0.25 lbs (6.02 ± .11 kg) (mixed) †

Minimum 20°F (−6°C) Maximum 110°F (43°C)

Prior to application, the material temperature should be between 70°F and 80°F (21°C and 27°C). It is suggested the material be stored at these temperatures at least 48 hours prior to use.

(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)

12 months at recommended storage temperature.

<table>
<thead>
<tr>
<th>Temperature</th>
<th>To Touch</th>
<th>Dry Through</th>
<th>Maximum to Recoat ‡</th>
</tr>
</thead>
<tbody>
<tr>
<td>95°F (35°C)</td>
<td>4 hours</td>
<td>12 hours</td>
<td>14 days</td>
</tr>
<tr>
<td>75°F (24°C)</td>
<td>10 hours</td>
<td>24 hours</td>
<td>21 days</td>
</tr>
<tr>
<td>55°F (13°C)</td>
<td>18 hours</td>
<td>48 hours</td>
<td>21 days</td>
</tr>
<tr>
<td>45°F (7°C)</td>
<td>24 hours</td>
<td>72 hours</td>
<td>21 days</td>
</tr>
<tr>
<td>35°F (2°C)</td>
<td>32 hours</td>
<td>96 hours</td>
<td>21 days</td>
</tr>
</tbody>
</table>

† Note: If the Series 215ML surface is exterior exposed for more than seven days, scarification is required before topcoating.

Unthinned: 0.08 lbs/gal solids (10 grams/litre) †

Unthinned: 0.0 lbs/gal solids

1,600 mil sq ft/gal (39.4 m²/L at 25 microns). See APPLICATION for coverage rates. †

Three: Liquids Part A (amine), Part B (epoxy), Fiberglass Reinforcing Mat Part C (S211-0215)

TOUCH-UP KIT

3 gal. pail (partial fill) 4 hours 12 hours 14 days

1 gallon can 9 hours 21 hours

1/2 gallon (1.89L) 24 hours 21 days

PART A

Large Kit 5 gal. pail (partial fill) 5 gal. pail (partial fill) 4 gallons (15L)

Small Kit 1 gallon can 5 gal. pail (partial fill) 2 gallons (7.5L)

Touch-Up Kit 1 quart can 1 quart can 1/2 gallon (1.89L)

The fiberglass reinforcing mat (S211-0215) is ordered separately from liquids and is calculated per sq ft based on a 38 in x 500 ft (1583 sq ft) roll. Available in full rolls only.

13.28 ± 0.25 lbs (6.02 ± .11 kg) (mixed) †

Minimum 20°F (−6°C) Maximum 110°F (43°C)

Prior to application, the material temperature should be between 70°F and 80°F (21°C and 27°C). It is suggested the material be stored at these temperatures at least 48 hours prior to use.

(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)

12 months at recommended storage temperature.

Net Weight Per Gallon

13.28 ± 0.25 lbs (6.02 ± .11 kg) (mixed) †

Minimum 20°F (−6°C) Maximum 110°F (43°C)

Prior to application, the material temperature should be between 70°F and 80°F (21°C and 27°C). It is suggested the material be stored at these temperatures at least 48 hours prior to use.

(Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)

12 months at recommended storage temperature.

<table>
<thead>
<tr>
<th>Temperature</th>
<th>To Touch</th>
<th>Dry Through</th>
<th>Maximum to Recoat ‡</th>
</tr>
</thead>
<tbody>
<tr>
<td>95°F (35°C)</td>
<td>4 hours</td>
<td>12 hours</td>
<td>14 days</td>
</tr>
<tr>
<td>75°F (24°C)</td>
<td>10 hours</td>
<td>24 hours</td>
<td>21 days</td>
</tr>
<tr>
<td>55°F (13°C)</td>
<td>18 hours</td>
<td>48 hours</td>
<td>21 days</td>
</tr>
<tr>
<td>45°F (7°C)</td>
<td>24 hours</td>
<td>72 hours</td>
<td>21 days</td>
</tr>
<tr>
<td>35°F (2°C)</td>
<td>32 hours</td>
<td>96 hours</td>
<td>21 days</td>
</tr>
</tbody>
</table>
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**

Before commencing, obtain and thoroughly read the Series 215ML/22 Fiber Reinforced System Installation and Application Guide.

Allow for surface irregularities and waste. Application of coating below minimum or above maximum recommended dry film thickness may adversely affect coating performance.

Mix the entire contents of Part A and Part B separately. Scrape all of the Part A material from the pail and into the Part B container by using a flexible spatula. Use a variable speed drill with a PS Jiffy blade and mix the blended components for a minimum of two minutes. Apply the mixed material within the pot life limits after agitation. Note: Tnemec Series 211-0211 fumed silica may be added at 0.75:1 by volume per mixed gallon where a thicker consistency is required to achieve the desired application and film build properties. Mix with Part A as directed in Mixing Instructions. Multiple lifts may be required. A large volume of material will gel quickly if not applied or reduced in volume. Caution: Do not reseal mixed material. An explosion hazard may be created.

**THINNING**

DO NOT THIN.

**POT LIFE**

45 minutes at 70°F (21°C) 25 minutes at 90°F (32°C)

Material temperatures above 90°F (32°C) will significantly reduce the pot life.

**APPLICATION EQUIPMENT**

Mortar hawk, trowels, broad knives and rubber floats are recommended. Series 215ML can also be spray transferred using spray texture gun equipment.

**Spray Application Equipment**

<table>
<thead>
<tr>
<th>Pump</th>
<th>Fluid Line</th>
<th>Spray Gun</th>
<th>Fluid Tips</th>
<th>Fluid Pressure</th>
<th>Atomizing Pressure</th>
<th>Hopper</th>
</tr>
</thead>
<tbody>
<tr>
<td>WIWA 410 9:1 Ratio</td>
<td>25' 1&quot; Diameter 10' 3/4' Diameter</td>
<td>WIWA Pole Gun</td>
<td>1/4&quot; to 3/8&quot;</td>
<td>180 to 360 psi (Adjust as necessary)</td>
<td>Adjust at gun for proper atomization</td>
<td>6.5 Gallons Stainless Steel</td>
</tr>
<tr>
<td>Graco 65:1, 56.1, X50, X60</td>
<td>3/8&quot; to 1/2&quot; I.D.</td>
<td>XTR-7</td>
<td>0.031&quot;-0.041&quot;</td>
<td>3500-4500 psi</td>
<td>N/A</td>
<td>6.5 Gallons Stainless Steel</td>
</tr>
<tr>
<td>Graco M680 10:1 Ratio</td>
<td>25' 1&quot; Diameter 10' 3/4' Diameter</td>
<td>Flex Hose</td>
<td>No. 5 Nozzle</td>
<td>200 psi (Adjust as necessary)</td>
<td>Adjust at gun for proper atomization</td>
<td>10 Gallons Stainless Steel</td>
</tr>
<tr>
<td>Graco M680 10:1 Ratio</td>
<td>25' 1&quot; Diameter 10' 3/4' Diameter</td>
<td>HTX</td>
<td>4C Fine Finish</td>
<td>250 psi (Adjust as necessary)</td>
<td>Adjust at gun for proper atomization</td>
<td>10 Gallons Stainless Steel</td>
</tr>
</tbody>
</table>

Cart mounted 9:1 ratio, air operated pump with air filter, regulator and lubricator, air control manifold, fluid outlet drain with drain valve and control air hose assembly. Refer to the operation manual for application instructions. Air requirements 80 CFM at 100 psi. Atomization air must be dry, the use of an after cooler is recommended.

**SURFACE TEMPERATURE**

Minimum 35°F (2°C), maximum 130°F (54°C). The surface temperature should be at least 5°F (3°C) above the dew point. Coating will not cure below minimum surface temperature. To minimize outgassing, concrete temperature should be stabilized or in a descending temperature mode and the concrete primed with a suitable epoxy primer.

Prior to application, the material temperature should be between 70°F and 80°F (21°C and 27°C). It is suggested the material be stored at these temperatures at least 48 hours prior to use. 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, MEK, or when required by SCAQMD regulations, No. 74 Thinner.

† Values may vary with color.