**PRODUCT PROFILE**

**GENERIC DESCRIPTION**
Mastic Waterborne Acrylic

**COMMON USAGE**
Series 154 is a durable, single-component, water-based elastomeric coating that forms a waterproof film over horizontal or vertical concrete surfaces as well as various types of wallboard, wood and tile. It is an excellent choice for areas that receive light to moderate traffic including balconies, walkways, pedestrian bridges, mechanical equipment rooms and other surfaces such as concrete decks that may require protection from weather or water intrusion. Versatile application characteristics allow Series 154 to be applied neat, as a broadcast system, or mixed with aggregate and either applied as slurry or used as a surfacer or filler. Series 154 can also be reinforced using woven or octagonal mesh inlays where crack-bridging or extra durability is needed.

**COLORS**
Refer to Tnemec Color Guide.

**FINISH**
Matte

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**SURFACE PREPARATION**

**CONCRETE**
Must be clean, dry and free of oil, grease, loosely adhered existing paint and all other contaminants. Prepare concrete by sanding, light grinding or by pressurized water cleaning between 4,000 and 5,000 psi using a “zero” degree oscillating tip (SSPC SP-15).

**CRACKS**
Fill hairline cracks less than 1/64 inch (0.4 mm) wide by brushing Series 154 into them prior to applying Series 154 over the entire area to be coated. For cracks wider than 1/64 inch (4 mm) and/or moving cracks, gaps and expansion joints use Series 211 reinforcing mesh. Note: Use Series 154 to embed Tneme-Tape prior to topcoating with 154.

**CMU**
Allow mortar to cure for 14 days. Level protrusions and mortar splatter. Surfaces must be clean, dry, sound and free of all contaminants. For pinhole free surface, use recommended block filler.

**PAINTED SURFACES**
Apply test patch to check adhesion. Remove loose paint and spot prime.

**ALL SURFACES**
Must be clean, dry and free of oil, grease, form release agents and other contaminants.

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**TECHNICAL DATA**

**VOLUME SOLIDS**
52% ± 2%

**RECOMMENDED DFT**
10.0 to 14.0 mils (250 to 355 microns) without reinforcement fabric, or aggregate.

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### THEORETICAL COVERAGE

<table>
<thead>
<tr>
<th>Temperature</th>
<th>To Touch</th>
<th>To Handle</th>
<th>To Topcoat</th>
</tr>
</thead>
<tbody>
<tr>
<td>105°F (41°C)</td>
<td>30 minutes</td>
<td>45-60 minutes</td>
<td>4-12 hours</td>
</tr>
<tr>
<td>95°F (35°C)</td>
<td>45 minutes</td>
<td>1-1.5 hours</td>
<td>4-12 hours</td>
</tr>
<tr>
<td>85°F (29°C)</td>
<td>1 hour</td>
<td>1.5-2 hours</td>
<td>8-16 hours</td>
</tr>
<tr>
<td>75°F (24°C)</td>
<td>1.5 hours</td>
<td>2-3 hours</td>
<td>8-16 hours</td>
</tr>
<tr>
<td>65°F (18°C)</td>
<td>2 hours</td>
<td>3-4 hours</td>
<td>24-32 hours</td>
</tr>
<tr>
<td>55°F (13°C)</td>
<td>3 hours</td>
<td>4-5 hours</td>
<td>32-40 hours</td>
</tr>
</tbody>
</table>

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**VOLATILE ORGANIC COMPOUNDS**
0.027 lbs/gallon (3.20 grams/litre)

**Theoretical Coverage**
854 mil sq ft/gal (20.4 m²/L at 25 microns). See APPLICATION for coverage rates. †

**Packaging**
5 gallon (18.9L) pails and 1 gallon (3.79L) cans.

**Surfacer, Broadcast and Slurry Applications**
Purchase clean, dry, bagged, 30/50 mesh flint shot, silica sand or approved equal.

**Reinforcing Meshes**
Order separately, please reference the table below for additional product information.

<table>
<thead>
<tr>
<th>Product Number</th>
<th>Description</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>S211-WV43200-UT</td>
<td>Woven Mesh †</td>
<td>42” W x 300’ L</td>
</tr>
<tr>
<td>S211-WV50300-UT</td>
<td>Woven Mesh †</td>
<td>30” W x 300’ L</td>
</tr>
<tr>
<td>S211-WV60400-UT</td>
<td>Woven Mesh †</td>
<td>6” W x 300’ L</td>
</tr>
<tr>
<td>S211-OC60375-UT</td>
<td>Octagonal Mesh †</td>
<td>60” W x 375’ L</td>
</tr>
<tr>
<td>S211-OC30375-UT</td>
<td>Octagonal Mesh †</td>
<td>30” W x 375’ L</td>
</tr>
<tr>
<td>S211-OC65375-UT</td>
<td>Octagonal Mesh †</td>
<td>6” W x 375’ L</td>
</tr>
</tbody>
</table>

† Available in full rolls only.

For Surface, Broadcast and Slurry Applications, purchase clean, dry, bagged, 30/50 mesh flint shot, silica sand or approved equal.

**Product Profile**
Series 130, 154 (extended with aggregate), 215, 217, 218, 1254. **Note:** When extending Series 154 as a surfacer mix three (3) parts 30/50 mesh sand with one (1) part Series 154 liquid by volume. For hairline cracks mix two (2) parts 30/50 mesh sand with one (1) part Series 154 liquid by volume.

**PRIMERS**
**Concrete:** Self-priming (when thinned between 20% to 25%) or Series 27WB, 151, 287. **Note:** Series 151 must be used as a primer before applying Series 154 over existing coatings or tile.

**INTERMEDIATE**
Series 154 (neat), 154 (slurry), 971. **Note:** When using Series 154 as a slurry, mix one (1) part 30/50 mesh sand with one (1) part Series 154 liquids by volume (must be thinned 5% with water).

**TOPCOATS**
Series 156, 157, 180, 181, 248, 297, 1026, 1028, 1029, 1080, 1081.

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**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

**COVERAGE RATES**

<table>
<thead>
<tr>
<th></th>
<th>Dry Mils (Microns)</th>
<th>Wet Mils (Microns)</th>
<th>Sq Ft/Gal (m²/Gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Suggested</td>
<td>12.0 (305)</td>
<td>25.0 (685)</td>
<td>70 (6.5)</td>
</tr>
<tr>
<td>Minimum</td>
<td>10.0 (255)</td>
<td>20.0 (510)</td>
<td>80 (7.4)</td>
</tr>
<tr>
<td>Maximum</td>
<td>14.0 (355)</td>
<td>27.0 (685)</td>
<td>60 (5.56)</td>
</tr>
</tbody>
</table>

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.

**MIXING**

May be thinned up to 20-25% per gallon with clean, tap water when used as a primer. May be thinned up to 5% for all other applications. **Caution: Thinning with high temperature water will significantly reduce the pot life. For best results, water temperature should not exceed 80°F (27°C).**

**THINNING**

May be thinned up to 20-25% per gallon with clean, tap water when used as a primer. May be thinned up to 5% for all other applications.

**APPLICATION**

**Primer:** 16.0-17.0 wet mils or 155-160 sq ft/gal (2.8-3.9 m²)

**Broadcast Applications:** Series 154 is spread at a rate of 60 to 80 sq ft (5.5 to 7.4 m²) per gallon or approximately 20 to 27 sq ft (10 to 14 m²) when wet. The aggregate is then broadcast to refusal into the liquid at approximately ½ pound per sq. ft until a uniformly dry appearance is obtained.

**Slurry Application:** Series 154 mixed one (1) part 30/50 mesh sand with one (1) part Series 154 liquids by volume. Thinned 5-10% is spread at a rate of 60 to 80 sq ft (5.5 to 7.4 m²) per gallon or approximately 20 to 27 sq ft (10 to 14 m²) when wet.

**Reinforcement** - **Octagonal Mesh:** Lay reinforcement mesh on all surfaces to a pre primed substrate. Once mesh is placed apply neat or slurry coat of Series 154 by brush and roller, forcing the 154 through the mesh to saturate and encapsulate the mesh. Series 154 neat at approximately 20-27 wet mils, slurry at approximately 20-27 wet mils.

**Reinforcement** - **Woven Mesh:** While the basecoat is still wet, lay and press the reinforcement mesh into the surface. Once mat is placed, immediately saturate mat with 16 - 18 wet mils of Series 154 saturant coat until reinforcement fabric is completely wet out. **Caution: When applied vertically the saturant coat should be applied at a thickness sufficient to only wet-out the reinforcement fabric. Any attempt to build a film on top of the mat may result in sags and runs.**

**APPLICATION EQUIPMENT**

**Airless Spray**

<table>
<thead>
<tr>
<th>Tip Orifice</th>
<th>Atomizing Pressure</th>
<th>Mat'l Hose ID</th>
<th>Manifold Filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.021&quot;-0.025&quot; (535 to 635 microns)</td>
<td>2500-5000 psi (172 to 206 l/s)</td>
<td>3/8&quot; (9.5 mm)</td>
<td>30 mesh (600 microns)</td>
</tr>
</tbody>
</table>

**Roller:** Use a 3/8" to 1/2" (9.5 mm to 38 mm) synthetic woven nap roller cover. Use longer nap for rough or porous surfaces.

**Brush:** Use a high quality nylon or synthetic bristle brush.

**Broadcast:** Roller, Squeegee, Trowel

**SURFACE TEMPERATURE**

Minimum 45°F (7°C) Maximum 120°F (49°C)

Clean all equipment immediately after use with water.

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