**Product Profile**

**Generic Description**
Epoxy Novolac Polymer Concrete

**Common Usage**
Series 479 is a non-shrinking novolac epoxy polymer concrete ideal for the rehabilitation of severely eroded concrete or for the corrosion-proofing of new concrete where superior chemical resistance is required throughout the complete topping system. Extremely fast setting, allowing for rebuilds of sumps, pump pads, trenches, process floors and secondary containment structures. Series 479 kits are packaged for casting and standard placement of material. A grouting mix may be made by adjusting the kit for a more fluid application.

**Colors**
905 Dark Gray Note: Color may vary from batch to batch.

**Finish**
Flat (as poured). Note: A semi-gloss finish can be achieved by troweling the surface.

**Coating System**

**Primer**
Series 4667

**Surface Preparation**

**Concrete**
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 surface profile. Note: A heavier anchor profile may be required for tie-ins and grouting, refer to the application guide for additional information.

**All Surfaces**
Must be clean and free of oil, grease and other contaminants. Always take precautions to prohibit the surface from becoming contaminated prior to product application.

**Technical Data**

**Volume Solids**
100% (mixed)

**Recommended DFT**
3/8” to 10” (1.0 - 2.5 cm) in a single pour.

**Curing Time**

<table>
<thead>
<tr>
<th>Temperature</th>
<th>Light Traffic/To Handle</th>
<th>Return to Service</th>
</tr>
</thead>
<tbody>
<tr>
<td>90°F (32°C)</td>
<td>4 hours</td>
<td>8 hours</td>
</tr>
<tr>
<td>77°F (25°C)</td>
<td>6 hours</td>
<td>24 hours</td>
</tr>
<tr>
<td>65°F (2°C)</td>
<td>8 hours</td>
<td>48 hours</td>
</tr>
</tbody>
</table>

**Volatile Organic Compounds**
0.09 lbs/gallon (11.2 grams/litre)

**Theoretical Coverage**
Coverage rates based on Casting/Topping Application:
- 88 sq ft (8.2 m²) at 3/8” per kit
- 66 sq ft (6.1 m²) at 1/2” per kit
- 33 sq ft (3.1 m³) at 1” per kit

See APPLICATION for additional coverage rates.

**Packaging**

<table>
<thead>
<tr>
<th></th>
<th>Part A</th>
<th>Part B</th>
<th>Part C</th>
<th>Yield (mixed)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Large Kit</strong></td>
<td>5 gallon pail</td>
<td>1 gallon can</td>
<td>4 - 70 lb bags</td>
<td>18.31 gallons (69.1 L)</td>
</tr>
<tr>
<td><strong>Small Kit</strong></td>
<td>1 gallon can</td>
<td>Quart Can</td>
<td>1-70 lb bag</td>
<td>4.58 gallons (17.3 L)</td>
</tr>
</tbody>
</table>

Note: To create a grouting material refer to the mixing section for additional information.

**Storage Temperature**
Minimum: 50°F (10°C) Maximum: 75°F (24°C)

**Temperature Resistance**
(Dry) Continuous 300°F (93°C)

**Shelf Life**
18 months at recommended storage temperature.

**Flash Point - SETA**
>230°F (110°C)

**Health & Safety**
Paint products contain chemical ingredients which are considered hazardous. Read container label warning and Safety Data Sheet for important health and safety information prior to the use of this product.

Keep out of the reach of children.
APPLICATION

COVERAGE RATES

<table>
<thead>
<tr>
<th>Coverage</th>
<th>Cubic Feet (Cubic Meter)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Casting/Topping</td>
<td></td>
</tr>
<tr>
<td>Large Kit</td>
<td>2.76 (.08)</td>
</tr>
<tr>
<td>Small Kit</td>
<td>0.69 (.02)</td>
</tr>
<tr>
<td>Grouting</td>
<td></td>
</tr>
<tr>
<td>Large Kit</td>
<td>1.72 (.05)</td>
</tr>
<tr>
<td>Small Kit</td>
<td>0.48 (.01)</td>
</tr>
</tbody>
</table>

WORKING TIME

Approximately 30–40 minutes at 77°F (27°C), & 50% R.H. **Note:** Working time decreases as temperatures increase. Material should be transferred to substrate and placed immediately after mixing.

MIXING

Power mix the contents of Series 479 Part A and Part B separately in their original containers prior to combining. Add the Series 479 Part B into the pre-mixed Part A and power mix the material approximately one to two minutes before placing material in a drum mixer or adding aggregate.

Pour entire contents of catalyzed liquid into the mortar mixer tub, making sure to scrape as much resin out of the container as possible. Start the mixing unit on low speed (15-20 rpms) and immediately begin adding Series 479 Part C into the mixer. Allow the first bag to be fully mixed before adding additional bags.

For additional mixing instructions please reference the charts below:

Casting/Topping (Large Kit as supplied):

<table>
<thead>
<tr>
<th>Part A</th>
<th>Part B</th>
<th>Part C</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 gallon pail (partially filled)</td>
<td>1 gallon can</td>
<td>4 - 70 lb bags</td>
</tr>
</tbody>
</table>

Casting/Topping (Small Kit as supplied):

<table>
<thead>
<tr>
<th>Part A</th>
<th>Part B</th>
<th>Part C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 gallon can</td>
<td>Quart can</td>
<td>1 - 70 lb bag</td>
</tr>
</tbody>
</table>

Grouting (Large Kit)

<table>
<thead>
<tr>
<th>Part A</th>
<th>Part B</th>
<th>Part C</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 gallon pail (partially filled)</td>
<td>1 gallon can</td>
<td>2.5 - 70 lb bags</td>
</tr>
</tbody>
</table>

Grouting (Small Kit)

<table>
<thead>
<tr>
<th>Part A</th>
<th>Part B</th>
<th>Part C</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 gallon can</td>
<td>Quart can</td>
<td>44 lbs</td>
</tr>
</tbody>
</table>

THINNING

Do not thin or attempt to retemper material.

APPLICATION

Topping Application: Projects 200 sq ft (18.6 m²) or less may be trowel applied. Projects exceeding 200 sq ft (18.6 m²) should have mixed material placed in appropriately sized and spaced drops between pre-set guide rails or metal screeds that have been set to the specified depth. The fluid material should be pulled along using a screed board in a sawing and compacting motion. Trowels may be used to assist in packing and the small movement of material. Finishing should begin quickly using a high grade steel trowel, wetted with No. 2 Thinner to assist with smoothing. If material is too resin rich or sticky, sand may be broadcast over the surface during finishing.

Casting Application: If Series 479 is to be cast into forms, all forms should be properly built, anchored and caulked for weep spots. Forms should be liberally waxed with release agents or lined with heavy gauge plastic secured to the internal sides. Once the forms are set, proceed with mixing the material per the mixing instructions above. Immediately move mixed polymer concrete to the form and pour into a funnel or head-box. Pour into annular space from one side as this allows for air to escape at the opposite end of the pour. Tamping rods, chains and vibrating equipment should be used to assist in moving and packing the material to limit voids in the polymer concrete once cured. **Important:** Do not cast over 10-inches (25 cm) in depth, contact Tnemec Technical Services for additional information.

Grouting Application: Series 479 can be mixed to create a fluid polymer concrete that allows for good flow into the annular spaces of previously set and leveled baseplates. **Note:** If using this material to restore the surface of a concrete pad prior to baseplate seating, these surfaces should be scarified to an ICRI CSP-8, the existing edges chamfered and framework built prior to application. Work on grouting projects should conform to ACI 351.5-15 “Specification for Installation of Epoxy Grouting Between Foundations and Equipment Bases” published by the American Concrete Institute.

APPLICATION EQUIPMENT

Hand troweling can be accomplished on small projects using steel concrete finishing trowels, broad knives, rubber floats, wooden floats or plastic floats. Plastic bottles for misting the smoothing liquids onto the trowels or on the polymer concrete surface may also be needed.

APPLICATION CLEANUP

Flush and clean all equipment immediately after use with No. 2 Thinner or MEK and using plastic scrub brushes on the mixing blades and mixing drum. Sand and the discarded Part C bags can be added to the mixer to help scour the material. Finish with soap and water.

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