ELASTO-SHIELD® SERIES 264

PRODUCT PROFILE

GENERIC DESCRIPTION
Modified Polyurethane

COMMON USAGE
Flexible liner providing a seamless monolithic membrane for use in potable water basins, steel tank floors and reservoirs. Also for areas requiring impermeability such as decorative ponds and secondary chemical containment.

COLORS
Black

FINISH
Gloss. Note: Prolonged exterior exposure will cause flattening of the finish.

SPECIAL QUALIFICATIONS
Underwriters Laboratories Inc. ® classified to ANSI/NSF Standard 61 for use in potable water storage. Maximum contact area is 20 cm² per litre of water, with minimum allowable size of tanks 5,000 gallons, cold water applications. Extensive test data available. Contact your Tnemec representative for specific test results.

COATING SYSTEM

SURFACER/FILLER/PATCHER
Series 215, 217, 218, 265

ADHESION PROMOTER AND PRIMER
Steel: Self-priming or Series 20, 20HS, FC20, FC20HS, N140, V260
Galvanized Steel and Non-Ferrous Metals: Series 20, 20HS, FC20, FC20HS, N140, V260
Concrete: Series 20, 20HS, FC20, FC20HS, N140
CMU: Series 20, 20HS, FC20, FC20HS, N140

Note: The use of the recommended epoxy primer will greatly reduce the natural tendency of concrete and CMU to outgas - a frequent cause of polyurethane topcoat bubbling. Also, Series 20, 20HS, FC20, FC20HS or N140 exterior exposed more than one week must first be scarified or reprimed with themselves. Brush brushing with fine abrasive is the preferred method of scarification. See also Caution statement at APPLICATION.

SURFACE PREPARATION

STEEL
Immersion Service: SSPC-SP10 Near-White Blast Cleaning
Non-Immersion Service: SSPC-SP6 Commercial Blast Cleaning

GALVANIZED STEEL
Surface preparation recommendations will vary depending on substrate and exposure conditions. Contact your Tnemec representative or Tnemec Technical Services.

CONCRETE
Allow new cast-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 slab. 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-SP 5 or greater surface profile. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer. Note: For horizontal applications, if moisture content exceeds 5 lbs per 1,000 sq ft or relative humidity is 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. For non-immersion service, Series 264 or 265 is preferred. When used inimmersion service, Series 264 or 265 should be modified with a polyurethane membrane. The testing listed above cannot guarantee avoidance of future moisture related problems particularly with existing concrete slab. 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.

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All Surfaces
Must be clean, dry and free of oil, grease, form release agents, curing compounds/membranes, sealers, hardeners and other contaminants.

TECHNICAL DATA

VOLUME SOLIDS
Recommended DFT
50 to 80 dry mils (1270 to 2052 microns) Note: Multiple passes at timed intervals are required to achieve recommended dry film thickness. Timing is dependent upon material and substrate temperatures. See the Elasto-Shield Application Guide for additional instructions.

CURING TIME
Temperature

Recoat Window ††

Full Cure

Immersion

75°F (24°C)

3 hours at 50 mils DFT

24 hours

Potable: 14 days †

Non-Potable: 48 hours

50 to 80 dry mils (1270 to 2052 microns) Note: Multiple passes at timed intervals are required to achieve recommended dry film thickness. Timing is dependent upon material and substrate temperatures. See the Elasto-Shield Application Guide for additional instructions.

† Film thicknesses greater than 50 mils DFT will require additional time for solvent release. Curing time varies with air & substrate temperatures, air movement, humidity and film thickness. †† Note: Scarify the surface and apply a coat of Series V260 Tneme-Bond before recoating if the maximum recoat time has been exceeded.

VOLATILE ORGANIC COMPOUNDS
8.24 ± .25 lbs (3.74 ± .11 kg) (mixed)

THEORETICAL COVERAGE
1,412 mil sq ft/gal (34.6 m²/L at 25 microns).

NUMBER OF COMPONENTS
2

PACKAGING
KIT CONSISTS OF:

Two—Liquids: Part A (resin)) and Part B (iso)

SPECIAL QUALIFICATIONS

PACKAGING

NET WEIGHT PER GALLON
8.24 ± .25 lbs (3.74 ± .11 kg) (mixed)

STORAGE TEMPERATURE
Part A: Minimum 20°F (-7°C) Maximum 110°F (43°C)
Part B: Minimum 70°F (21°C) Maximum 95°F (35°C)

POLYESTER NETWORK

Part A: Minimum 70°F (21°C) Maximum 95°F (35°C)

Part B: Minimum 70°F (21°C) Maximum 95°F (35°C)

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**APPLICATION**

**COVERAGE RATES**  
Before commencing, obtain and thoroughly read the Elasto-Shield Surface Preparation and Application Guide.

<table>
<thead>
<tr>
<th>Dry Mils †</th>
<th>Wet Mils † (Microns)</th>
<th>Sq Ft/Gal (m²/Gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>50-80 (1270-2032)</td>
<td>57.5-92 (1460-2336)</td>
<td>27.9-17.4 (2.6-1.6)</td>
</tr>
</tbody>
</table>

† Spray application on vertical surfaces requires multiple passes to achieve minimum film thickness. Caution: Do not apply when temperature is below 50°F (10°C); material temperature at time of application must be a minimum of 70°F (21°C).

**MIXING**  
Use a 1/2" (5.5 amp) variable speed drill with a drywall mud or plaster mixing blade. Slowly mix the entire contents of Part A in the pail supplied. While continuing agitation, slowly add the entire contents of the Part B jug and mix for 3 minutes. Note: Do not vary these directions. Also, these materials are packaged by weight and the ratio of Part A and Part B should not be altered. Refer to the Elasto-Shield Application Guide for additional information.

**THINNING**  
Not recommended.

**POT LIFE**  
45 minutes at 60°F (16°C)  
30 minutes at 70°F (21°C)  
20 minutes at 80°F (27°C)  
10 minutes at 90°F (32°C)

Note: Values are for pouring and spreading applications. Sprayable times will be somewhat less.

**APPLICATION EQUIPMENT**

<table>
<thead>
<tr>
<th>Gun</th>
<th>Fluid Tip</th>
<th>Air Cap</th>
<th>Air Hose ID</th>
<th>Mat’l Hose ID</th>
<th>Atomizing Pressure</th>
<th>† Pump</th>
<th>†† Fluid Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Graco 204-00</td>
<td>167-531</td>
<td>160-660 160-663</td>
<td>3/8” min. (9.5 mm)</td>
<td>3/4” min. (19.0 mm)</td>
<td>40-100 psi (2.8-6.9 bar)</td>
<td>954-088 10:1 President Pump</td>
<td>350-800 psi (24.1-55.2 bar)</td>
</tr>
<tr>
<td>Binks 7E2 or #125 Pole</td>
<td>47</td>
<td>3/8” 3/8” E 291</td>
<td>3/8” min. (9.5 mm)</td>
<td>3/4” min. (19.0 mm)</td>
<td>40-100 psi (2.8-6.9 bar)</td>
<td>41-6670 8:1 Comet Pump</td>
<td>350-800 psi (24.1-55.2 bar)</td>
</tr>
<tr>
<td>Witco 410 or 600</td>
<td>1/4”</td>
<td>N/A</td>
<td>3/8” min. (9.5 mm)</td>
<td>3/4” min. (19.0 mm)</td>
<td>N/A</td>
<td>410 (9:1 Ratio) 600 (12:1 Ratio)</td>
<td>350-800 psi (24.1-55.2 bar)</td>
</tr>
</tbody>
</table>

† Pump must have a minimum of 2 gpm delivery.  
†† Listed pressure is at gun.

**SURFACE TEMPERATURE**  
Minimum 50°F (10°C) Maximum 120°F (49°C)

The surface should be dry and at least 5°F (5°C) above the dew point. To avoid outgassing, concrete temperature should be stabilized or in a descending temperature mode. Material should not be applied in direct sunlight.

**CLEANUP**  
Flush and clean all equipment immediately after use with MEK.

**CAUTION**  
All material, equipment, air supply and surfaces to be coated must be kept dry. Do not apply when wet weather or wet conditions may occur within 4 hours of application. Refer to the Elasto-Shield Application Guide for further instructions.

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