



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 cm ² per litre of water, with minimum allowable size of tanks 5,000 gallons; cold water applications.
PERFORMANCE CRITERIA	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	<p>Steel: Self-priming or Series 20, 20HS, FC20, FC20HS, N140, V260</p> <p>Galvanized Steel and Non-Ferrous Metals: Series 20, 20HS, FC20, FC20HS, N140, V260</p> <p>Glass and Fiberglass: Series V260</p> <p>Concrete: Series 20, 20HS, FC20, FC20HS, N140</p> <p>CMU: Series 20, 20HS, FC20, FC20HS, N140</p> <p>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 blasting with fine abrasive is the preferred method of scarification. See also Caution statement at APPLICATION.</p>

SURFACE PREPARATION

STEEL	<p>Immersion Service: SSPC-SP10 Near-White Blast Cleaning</p> <p>Non-Immersion Service: SSPC-SP6 Commercial Blast Cleaning</p>
GALVANIZED STEEL	Surface preparation recommendations will vary depending on substrate and exposure conditions. Contact your Tnemec representative or Tnemec Technical Services.
CONCRETE	<p>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 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.</p> <p>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 horizontal applications, if moisture content exceeds 3 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.</p>
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	88.0 ± 2.0% (mixed)								
RECOMMENDED DFT	50 to 80 dry mils (1270 to 2032 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	<table border="1"> <thead> <tr> <th>Temperature</th> <th>Recoat Window ††</th> <th>Full Cure</th> <th>Immersion</th> </tr> </thead> <tbody> <tr> <td>75°F (24°C)</td> <td>3 hours at 50 mils DFT</td> <td>24 hours</td> <td>Potable: 14 days † Non-Potable: 48 hours</td> </tr> </tbody> </table> <p>† 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 Tnemec-Bond before recoating if the maximum recoat time has been exceeded.</p>	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
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75°F (24°C)	3 hours at 50 mils DFT	24 hours	Potable: 14 days † Non-Potable: 48 hours						
VOLATILE ORGANIC COMPOUNDS	0.75 lbs/gallon (90 grams/litre)								
THEORETICAL COVERAGE	1,412 mil sq ft/gal (34.6 m ² /L at 25 microns).								
NUMBER OF COMPONENTS	Two—Liquids: Part A (resin) and Part B (iso)								
PACKAGING	KIT CONSISTS OF:								
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Large Kit	5.5 gallon pail	1/2 gallon plastic jug	5 gallons (18.9L)						
NET WEIGHT PER GALLON	8.24 ± .25 lbs (3.74 ± .11 kg) (mixed)								
STORAGE TEMPERATURE	<p>Part A: Minimum 20°F (-7°C) Maximum 110°F (43°C)</p> <p>Part B: Minimum 70°F (21°C) Maximum 95°F (35°C)</p>								

ELASTO-SHIELD® | SERIES 264

TEMPERATURE RESISTANCE (Dry) Continuous 200°F (93°C) Intermittent 250°F (121°C)
SHelf LIFE Part A: 2 years and Part B: 6 months at recommended storage temperatures.
FLASH POINT - SETA Part A: 101°F (38°C) Part B: >250°F (121°C)
HEALTH & SAFETY 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

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

Dry Mills † (Microns)	Wet Mills † (Microns)	Sq Ft/Gal (m ² /Gal)
50-80 (1270-2032)	57.5-92 (1460-2336)	27.9-17.4 (2.6-1.6)

† Spray application on vertical surfaces requires multiple passes to achieve minimum film thickness. **Caution: Do not apply when surface 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 **Air Spray**

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	† Pump	†† Fluid Pressure
Graco 204-00	167-331	160-660 160-663	3/8" min. (9.5 mm)	3/4" min. (19.0 mm)	40-100 psi (2.8-6.9 bar)	954-088 10:1 President Pump	350-800 psi (24.1-55.2 bar)
Binks 7E2 or #125 Pole	47	3/8" 3/8" E 291	3/8" min. (9.5 mm)	3/4" min. (19.0 mm)	40-100 psi (2.8-6.9 bar)	41-6670 8:1 Comet Pump	350-800 psi (24.1-55.2 bar)
WTWA 410 or 600	1/4"	N/A	3/8" min. (9.5 mm)	3/4" min. (19.0 mm)	N/A	410 (9:1 Ratio) 600 (12:1 Ratio)	350-800 psi (24.1-55.2 bar)

† Pump must have a minimum of 2 gpm delivery.

†† Listed pressure is at gun.

Vertical Surfaces: A functional coat of Elasto-Shield may contain some runs, sags and small bubbles. Backrolling can help alleviate this condition.

Horizontal Surfaces: Notched squeegee. Refer to the Elasto-Shield Application Guide.

SURFACE TEMPERATURE Minimum 50°F (10°C) Maximum 120°F (49°C)
 The surface should be dry and at least 5°F (3°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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