



PRODUCT PROFILE

**GENERIC DESCRIPTION** Modified Polyurethane

**COMMON USAGE** Chemical- and abrasion-resistant elastomeric membrane with exceptional strength and flexibility. Ideally suited for environmental requirements of waste containment for primary or secondary containment. Spray applied, it forms the monolithic, impermeable liner required for earth collection and catch basins, decorative ponds and fountains, reservoirs, cooling towers, dams and spillways.

**COLORS** Black

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

**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** **Steel:** Self-priming or Series 66, 66HS, N69, 161, 161HS, V260  
**Galvanized Steel and Non-Ferrous Metals:** Series 66, 66HS, N69, 161, 161HS, V260  
**Concrete:** Series 66, 66HS, N69, 161, 161HS  
**CMU:** Series 66, 66HS, N69, 161, 161HS  
**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 66, 66HS, N69, 161 or 161HS 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.

**TOPCOATS** Series 156 – Optional, when additional UV protection or a color coat is desired for secondary containment. Series 156 is not recommended for immersion service.

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 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.

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.

**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 100 dry mils (1270 to 2540 microns) by spray. Multiple passes at timed intervals are required to achieve recommended dry film thickness on vertical surfaces. Timing is dependent upon material and substrate temperatures. See the Elasto-Shield Application Guide for additional instructions. Up to 125 mils (3175 microns) per coat by squeegee.

CURING TIME	Temperature	Initial Cure	Recoat	Immersion
	75°F (24°C) at 50 mils	3 to 4 hours	3 hours	48 hours

Curing time varies with air & substrate temperature, air movement, humidity and film thickness. **Note:** Contact your Tnemec representative for curing times involving severe abrasion and traffic applications. Also, scarify the surface and apply a coat of Series V260 Tnemec-Bond before recoating if the maximum recoat time has been exceeded.

**VOLATILE ORGANIC COMPOUNDS** 0.76 lbs/gallon (92 grams/litre)

**THEORETICAL COVERAGE** 1,412 mil sq ft/gal (34.6 m<sup>2</sup>/L at 25 microns). See APPLICATION for coverage rates.

**NUMBER OF COMPONENTS** Two: Part A (resin) and Part B (iso)

**PACKAGING** KIT CONSISTS OF:

	PART A (Partially filled)	PART B (Partially filled)	When Mixed
Large Kit	5.5 gallon pail	1/2 gallon plastic jug	5 gallons (18.9L)

**NET WEIGHT PER GALLON** 8.28 ± .25 lbs (3.71 ± .11 kg) (mixed)

# ELASTO-SHIELD® | SERIES 262

**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)

**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 Mils † (Microns)	Wet Mils † (Microns)	Sq Ft/Gal (m <sup>2</sup> /Gal)
50-100 (1270-2540)	57.5-115 (1460-2920)	14.0-27.9 (1.3-2.6)

† 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).** Allow for overspray and surface irregularities. Application of coating below minimum recommended dry film thickness may adversely affect coating performance.

**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 Nozzle	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	† Pump	‡ Fluid Pressure
Graco 204-000	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)
WIWA 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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