



# EVERTHANE SERIES 247

## PRODUCT PROFILE

<b>GENERIC DESCRIPTION</b>	Aliphatic Moisture Cured Urethane
<b>COMMON USAGE</b>	Extremely hard, chemical-resistant urethane floor coating with superb flow characteristics. Excellent resistance to abrasion, wet conditions, corrosive fumes and chemical contact. Excellent gloss and color retention. Low odor characteristic allows for use near occupied space. <b>Note:</b> For horizontal surfaces only.
<b>COLORS</b>	Supplied as a clear coat. May be tinted with available Series 821 color pack in the 16 standard StrataShield colors and limited custom colors. Color packs sold separately. Contact Tnemec Company for availability. <b>Note:</b> Certain colors may require multiple coats depending on method of application and finish coat color. When feasible, the preceding coat should be the same color as the topcoat. <b>Note:</b> Series 44-600 UV Blocker may be added to Series 247 (clear) for increased resistance to ultra-violet light. Refer to the Series 44-600 product data sheet for more information.
<b>FINISH</b>	Gloss
<b>SPECIAL QUALIFICATIONS</b>	Series 247 meets the requirements of LEED-Low-Emitting Materials, Collaborative for High-Performance Schools-Paints & Coatings, WELL Building Standard-VOC Restrictions, and Living Building Challenge-Healthy Interior Performance. Contact your Tnemec representative for more information.

## COATING SYSTEM

<b>PRIMERS</b>	<b>Concrete:</b> Series 201, 208, N222, N222FC, N223, N224, 233, 256, 257, 280, 281, N283, N284, N285, 288, 289. <b>Note:</b> Series 247 can be applied directly to concrete if a single-coat urethane sealer is desired.
<b>INTERMEDIATE</b>	Series 210, N222, N222FC, N223, N224, 233, 256, 257, 280, 281, N284, N285, 288, 289 <b>Note:</b> Before applying Series 247 over coatings with a smooth, glossy surface, thoroughly scarify the previous coating using a power sander and 100 grit sandpaper, No. 60 mesh sanding screen, or a coarse stripping pad to eliminate surface tension. Failing to uniformly de-gloss the entire surface or thoroughly clean all surface contamination may lead to fisheyes and/or poor adhesion. Sanding or scarification is not required when topcoating textured coatings (i.e. aggregate or colored quartz broadcast to refusal) with Series 247 if the maximum recoat time of the previous coating is met. <b>Note:</b> When applying Series 247 over a broadcast or mortar system, an epoxy grout coat is required. <b>Note:</b> When applying Series 247 over a broadcast or mortar system, a 100% solids epoxy grout coat or Series 256 or 257 is required.

## SURFACE PREPARATION

<b>CONCRETE</b>	Prepare surfaces by method suitable for exposure and service. Refer to the appropriate primer data sheet for specific recommendations.  Allow new poured-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). <b>Note:</b> 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.
<b>ALL SURFACES</b>	Prepare concrete surfaces in accordance with NACE No. 6/SSPC-SP13 Joint Surface Preparation Standards and ICRI Technical Guidelines. Mechanically abrade concrete surfaces to remove laitance, curing compounds, hardeners, sealers and other contaminants and to provide a minimum ICRI-CSP 2 surface profile. Large cracks, voids and other surface imperfections should be filled with a recommended filler or surfacer.  Must be clean, dry and free of oil, grease and other contaminants. Existing coatings require thorough scarification using a power sander with 100 grit sandpaper and compatibility testing.

## TECHNICAL DATA

<b>VOLUME SOLIDS</b>	91 ± 2.0% (clear mixed) †														
<b>RECOMMENDED DFT</b>	2.0 to 3.0 mils (50 to 75 microns) per coat. <b>Note:</b> Number of coats will vary depending on color, substrate (surface) and other variables. Contact your Tnemec representative.														
<b>CURING TIME</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Temperature</th> <th style="text-align: center;">Min. Recoat ‡</th> <th style="text-align: center;">To Service</th> <th style="text-align: center;">Chemical Resistance</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">75°F (24°C)</td> <td style="text-align: center;">12 hours</td> <td style="text-align: center;">24 hours</td> <td style="text-align: center;">7 days</td> </tr> </tbody> </table>			Temperature	Min. Recoat ‡	To Service	Chemical Resistance	75°F (24°C)	12 hours	24 hours	7 days				
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<b>VOLATILE ORGANIC COMPOUNDS</b>	‡ When recoating, the surface <b>must</b> be thoroughly scarified using 60 grit sandpaper or No. 60 mesh sanding screen. Curing time varies with surface temperature, air movement, humidity and film thickness.														
<b>THEORETICAL COVERAGE</b>	<b>Unthinned:</b> 0.74 lbs/gallon (89 grams/litre) †														
<b>NUMBER OF COMPONENTS</b>	1,460 mil sq ft/gal (36.0 m <sup>2</sup> /L at 25 microns). See APPLICATION for coverage rates. †														
<b>PACKAGING</b>	Two: Part A and Part B (clear).														
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Color packs are sold separately as Series 821 Field Colorant. Add one pint color pack per small kit or three pint color packages per large kit.

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**STORAGE TEMPERATURE** Minimum 20°F (-7°C) Maximum 110°F (43°C)  
**TEMPERATURE RESISTANCE** (Dry) Continuous 250°F (121°C) Intermittent 275°F (135°C)  
**SHelf LIFE** 12 months in unopened cans at recommended storage temperature.  
**FLASH POINT - SETA** Part A: >200°F (93°C) Part B: 186°F (86°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	Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m <sup>2</sup> /Gal)
	Suggested	2.5 (65)	3.0 (75)
Minimum	2.0 (50)	2.5 (65)	730 (67.8)
Maximum	3.0 (75)	3.5 (87)	487 (45.3)

Allow for surface irregularities. 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** Add Part B to Part A while under agitation. Continue agitation until the two components are thoroughly mixed. If material is to be tinted, use one pint container of Series 821 color for a small kit and three pints for a large kit. Add color pack to Part A and stir thoroughly before adding Part B. Do not use mixed material beyond pot life limits. Part A is moisture-sensitive and will react with atmospheric moisture. Mix in full kits only. Opened material should not be reused. Do not seal containers of mixed material.

**THINNING** Do not thin.

**POT LIFE** 2 hours at 77°F (25°C)

**APPLICATION EQUIPMENT** **Roller:** Use a 1/4" or 3/8" (6.4 mm or 9.5 mm) high quality and shed-resistant synthetic woven nap cover. Do not use long nap roller covers. **Note:** A 1/4" (6.4 mm) roller is recommended when applying Series 247 over a smooth or non-textured surface.

**Brush:** Use high quality natural or synthetic bristle brushes.

**SURFACE TEMPERATURE** Minimum 40°F (4°C) Maximum 90°F (32°C)  
 The surface should be dry and at least 5°F (3°C) above the dew point. This product is moisture sensitive until cured.

**AMBIENT HUMIDITY** Minimum 20% Maximum 80%  
**Humidity must be below 80%.** Application of the coating above the maximum recommended dry film thickness or at relative humidities above 80% may cause bubbles or microfoaming to form in the cured film. Relative humidities below 20% will not allow the coating to properly cure.

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

† Values may vary with color.

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