TNEMEC

PRODUCT DATA SHEET

EVERTHANE SERIES 248

PRODUCT PROFILE

GENERIC DESCRIPTION Aliphatic Moisture Cured Urethane

COMMON USAGE Extremely hard, chemical-resistant urethane floor coating with superb wear 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.

COLORS 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. **Note:** Certain colors may require multiple coats depending on method of application and finish coat color. When feasible, the preceding coat shoud be the same color as the topcoat. **Note:** Series 44-600 UV Blocker may be added to Series 248 (clear) for increased resistance to ultra-violet light. Refer to the Series 44-600 product data sheet for more information.

FINISH Semi-gloss. **Note:** The gloss level can be reduced by adding two Part C filler components to each kit.

SPECIAL QUALIFICATIONS Series 248 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

PRIMERS **Concrete:** Series 201, 205, 208, N222, N223, N224, 233, 237, 238, 256, 257, 280, 281, N283, N284, N285, 287. **Note:** Series 248 can be applied directly to concrete if a single-coat urethane sealer is desired.

INTERMEDIATE Series 205, 210, N222, N223, N224, 233, 237, 238, 256, 257, 280, 281, N284, N285, 287
Note: Applying Series 248 to one of the listed primers or intermediate coats does not require sanding if the maximum recoat window for the primer or intermediate coat has not been exceeded. However, when applying Series 248 over smooth, slick, glossy surfaces it is good practice to uniformly degloss the surface by power sanding with 100 grit sandpaper, a 60 mesh sanding screen, or a coarse stripping pad to eliminate surface tension and any potential for possible contamination in the surface that may lead to fisheyes and/or poor adhesion. Sanding is not required when topcoating textured coatings (i.e. aggregate or colored quartz broadcast to refusal) with Series 248 if the maximum recoat window for the primer or intermediate coat has not been exceeded. **Note:** When applying Series 248 over a broadcast or mortar system, a 100% solids epoxy grout coat or Series 256 or 257 is required.

SURFACE PREPARATION

Prepare surfaces by method suitable for exposure and service. Refer to the appropriate primer data sheet for specific recommendations.

CONCRETE 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). **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. 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.

ALL SURFACES 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

VOLUME SOLIDS 92 ± 2.0% (clear mixed) †

RECOMMENDED DFT 2.0 to 3.0 mils (50 to 75 microns) per coat. **Note:** Number of coats will vary depending on color, substrate (surface) and other variables. Contact your Tnemec representative.

CURING TIME

Temperature	Min. Recoat ‡	To Service	Chemical Resistance
75°F (24°C)	12 hours	24 hours	7 days

‡ When recoating, the surface **must** 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.

VOLATILE ORGANIC COMPOUNDS **Unthinned:** 0.68 lbs/gallon (82 grams/litre) †

THEORETICAL COVERAGE 1,476 mil sq ft/gal (36.2 m²/L at 25 microns). See APPLICATION for coverage rates. †

NUMBER OF COMPONENTS Three: Part A, Part B (clear) and Part C (powder)

PACKAGING

	Part A (partially filled)	Part B	Part C (partially filled)	Yield (When Mixed)
Large Kit	3 gallon pail	½ gallon can	1 gallon can-6.5460 lbs	3.225 gallons (12.2 L)
Small Kit	1 gallon can	1 pint can	1 quart can-2.1820 lbs	1.075 gallons (4.07 L)

Color packs are sold separately as 821 Field Colorant. Add one-pint color pack per small kit or three-pint color packages per large kit.

NET WEIGHT PER GALLON 10.67 ± 0.25 lbs (4.84 ± 0.11 kg) (clear mixed) †

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 Part A: 12 months; Part B: 12 months; Part C: 24 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 (m²/Gal)
Suggested	2.5 (65)	2.5 (65)	590 (54.8)
Minimum	2.0 (50)	2.0 (50)	738 (68.5)
Maximum	3.0 (75)	3.5 (90)	492 (45.7)

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 Premix Part A for one minute. While under agitation slowly sift in Part C powder. 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. Thoroughly combine the Parts A and C. Mix well before adding the 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 reseal 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 248 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.