



PRODUCT PROFILE

GENERIC DESCRIPTION Flexible Vinyl Ester

COMMON USAGE Series 1407 is a specially formulated primer with flexible properties designed for use on concrete and steel substrates. Series 1407 may be used under a wide-range of Tnemec vinyl ester intermediate and finish coats with the exception of direct food contact systems. Replaces ProPolymer 4805.

COLORS 900 Clear

FINISH Gloss

COATING SYSTEM

SURFACER/FILLER/PATCHER Series 211-0211 Fumed Silica or 211-9111 Bulking Powder can be added to Series 1407 to create a heavy-bodied filler and patching material.

INTERMEDIATE TOPCOATS Series 1415, 1416, 1418, 1428 and Series 1420 or 1422 (non FDA service).
Series 489, 1436, 1438, 1439 or Series 1430, 1432 (non FDA service).

SURFACE PREPARATION

STEEL **Immersion Service:** SSPC-SP10/NACE 2 Near-White Metal Blast Cleaning or ISO Sa 2 1/2 Very Thorough Blast Cleaning with a minimum angular anchor profile of 3.0 mils. **Note:** For aggressive cargo exposures or immersion in elevated temperatures, an SSPC-SP5/NACE 1 or ISO Sa 3 Blast Cleaning to Visually Clean Steel with a minimum angular anchor profile of 3.0 mils may be required. Contact Tnemec Technical Service for more information.

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). 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 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.

TECHNICAL DATA

VOLUME SOLIDS 85.0 ± 2.0%

RECOMMENDED DFT 2.0 mils to 6.0 mils (50 microns to 150 microns).

CURING TIME

Temperature	To Recoat	Immersion Service
90°F (32°C)	2 hours min. 24 hours max.	24 hours
70°F (21°C)	2 hours min. 24 hours max	24 hours

Note: If the maximum recoat time has elapsed between coats, the Series 1407 coated surface must be uniformly scarified prior to topcoating.

VOLATILE ORGANIC COMPOUNDS 3.06 lbs/gal (366 g/l)

HAPS 5.88 lbs/gal solids

THEORETICAL COVERAGE 898 mil sq ft/gal (22.0 m²/L at 25 microns). See APPLICATION for coverage rates.

NUMBER OF COMPONENTS Two: Part A (base) and Part B (catalyst)

PACKAGING

	Part A (partially filled)	Part B (partially filled)	Yield (mixed)
Medium Kit	5 gallon pail	pint bottle	5.0 gallons (18.9 L)
Small Kit	1 gallon can	4 oz bottle	1.0 gallons (3.7 L)

NET WEIGHT PER GALLON 8.89 lbs ± 0.25 lbs (4.0 ± 0.11 kg) (mixed)

STORAGE TEMPERATURE Minimum 40°F (4°C) Maximum 80°F (26°C)

TEMPERATURE RESISTANCE (Dry) Continuous 240°F (116°C)

SHELF LIFE Part A: 3 months; Part B: 12 months at recommended storage temperatures.
DUE TO THE REACTIVE NATURE OF THE VINYL ESTER RESINS AND THE CORRESPONDING LIMITED SHELF LIFE, EXPEDITIOUS USE OF THIS PRODUCT IS SUGGESTED, SINCE JOBSITE STORAGE CONDITIONS ARE BEYOND TNEMEC'S CONTROL, THIS PRODUCT IS NON-RETURNABLE.

FLASH POINT - SETA 90°F (32°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.

VINESTER | SERIES 1407

APPLICATION

COVERAGE RATES

	Dry Mils (microns)	Wet Mils (microns)	Sq Ft/Gal (m ² /Gal)
Minimum	2.0 (50)	2.5 (60)	682 (63)
Maximum	6.0 (150)	7.0 (175)	227 (21)

Actual spreading rates will vary with surface profile, amount of overspray and surface irregularities. Application of coating below minimum or above maximum recommended dry film thicknesses may adversely affect coating performance. THIS PRODUCT SHOULD NOT BE APPLIED BELOW 60°F (16°C) MATERIAL TEMPERATURE.

MIXING

Power mix contents of Part A (base) thoroughly, making sure no pigment remains on the bottom of the can. Add the Part B (catalyst) slowly to the Part A while under agitation. Ensure that all Part B is blended with Part A by scraping the pail walls with a flexible spatula. Continue to agitate until thoroughly mixed. Care should be exercised so as not to entrap air in the mixed material. Do not use mixed material beyond pot life limits.

THINNING

Do Not Thin

POT LIFE

30 minutes at 75°F (24°C)

Note: At higher temperatures pot life will decrease (use caution in spray equipment). In hot weather, material should be cooled to 65°F to 80°F (18°C to 27°C) prior to mixing and application to improve workability and avoid shortened pot life.

SPRAY LIFE

25 minutes at 75°F (24°C)

APPLICATION EQUIPMENT

Airless Spray

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.013"-0.017" (330-341 microns)	3000-4000 psi (206-275 bar)	3/8" (9.5 mm)	60 mesh (250 microns)

Use appropriate tip/atomizing pressure for equipment, applicator technique and weather conditions.

Brush: Recommended for small areas only. Use high quality natural or synthetic bristle brushes.

Roller: Use 1/4" or 3/8" (6.5 mm to 9.5 mm) high quality synthetic woven nap covers.

SURFACE TEMPERATURE

Minimum 60°F (16°C), optimum 70°F (21°C), maximum 100°F (38°C). The surface should be dry and at least 5°F (3°C) above the dew point. At surface temperatures below 60°F (16°C), Series 1407 will not cure properly or obtain maximum chemical resistance. At relative humidities above 75%, the cure of this coating may be retarded. It is also recommended that all precautions be taken to insure that adequate forced-air ventilation exists.

MATERIAL TEMPERATURE

For optimum application, handling and performance, the material temperature during application should be between 60°F and 90°F (16°C and 32°C). Temperature will affect the workability. Cool temperatures increase viscosity and lengthen pot life. Warm temperatures will decrease viscosity and shorten pot life.

CLEANUP

Clean and purge lines immediately after use with MEK.

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