



PRODUCT PROFILE

GENERIC DESCRIPTION Novolac Vinyl Ester

COMMON USAGE An enhanced elevated temperature, novolac vinyl ester, filled with specially treated premium glass flakes. This product has outstanding trowel application properties. Series 1428 is ideal for the rehabilitation of heavily corroded steel substrates and for high film build protection in the most demanding chemically active and corrosive environments. Series 1428 can be used in FGD units for time saving, quick repairs on small areas or used as a complete lining. Formerly ProPolymer 4875T.

COLORS 901 White, 908 Lavender

FINISH Semi-gloss

COATING SYSTEM

PRIMERS Self priming or Series 1402, 1407

TOPCOATS Series 1436, 1438, 1439

SURFACE PREPARATION

STEEL **Immersion Service/Severe Exposure/Elevated Temperatures:** SSPC SP5/ NACE No.1 White Metal Blast Cleaning or ISO Sa3 Blast Cleaning to Visually Clean with a minimum angular anchor profile of 3.0 mils (75 microns) is required. **Non-Immersion Service:** SSPC SP10/NACE No. 2 Near White Metal Blast Cleaning or ISO Sa 2 ½ Very Thorough Blast Cleaning with a minimum angular anchor profile of 3.0 mils (75 microns) is required.

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. **Note:** This product is most commonly used on metallic substrates, contact Tnemec Technical Services to confirm an appropriate lining selection or for an alternate lining.

TECHNICAL DATA

VOLUME SOLIDS 85% (mixed). Series 1428 contains a reactive monomer and some loss will occur during application and cure. Actual solids by volume will vary depending upon temperature and air movement.

RECOMMENDED DFT 30.0 to 80.0 mils (762 to 2032 microns) per coat.

CURING TIME

Temperature	To Recoat	Immersion	Maximum Recoat
90°F (32°C)	3 hours	20 hours	72 hours
75°F (24°C)	4 hours	24 hours	96 hours
50°F (10°C)	12 hours	96 hours	120 hours

VOLATILE ORGANIC COMPOUNDS

EPA Method 24
0.52 lbs/gallon (62 grams/litre) mixed

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)

STORAGE TEMPERATURE

Minimum 50°F (10°C) Maximum 75°F (24°C)

TEMPERATURE RESISTANCE

(Dry) continuous 360°F (182°C) Intermittent 400°F (204°C)

SHelf LIFE

Part A: 3 months at 35°F to 49°F (2°C to 9°C), 2 months at 50°F to 79°F (10°C to 26°C), 1 month at 80°F to 90°F (27°C to 32°C). Do not store at temperature below 35°F (2°C) or above 90°F (32°C).
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 TNE MEC'S CONTROL, THIS PRODUCT IS NON-RETURNABLE.
Part B: 12 months at recommended storage temperature.

FLASH POINT - SETA

Part A: 79°F (26°C) Part B: 133°F (56°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 1428

APPLICATION

COVERAGE RATES

	Dry Mils (microns)	Wet Mils (microns)	Sq Ft/Gal (m ² /Gal)
Minimum	30.0 (762)	35.0 (889)	45 (4.2)
Maximum	80.0 (2032)	94.0 (2388)	17 (1.6)

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. **Note:** Do not over mix, caution should be taken to avoid shearing the glass flake. Do not use mixed material beyond pot life limits.

THINNING

Do not thin.

POT LIFE

45 minutes at 75°F (24°C)

Note: At higher temperatures pot life will decrease (use caution in spray equipment).

APPLICATION EQUIPMENT

Troweled: Use a high grade metal trowel with rounded corners in addition to if needed, a mortar hawk to assist in transfer of mixed materials.

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

Roller: Roller application acceptable, may require multiple coats to achieve specified thickness. use a solvent resistant phenolic core roller with a minimum 1/2" nap.

SURFACE TEMPERATURE

Minimum 60°F (16°C), optimum 70°F (21°C), maximum 90°F (32°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 1428 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 equipment immediately after use with MEK.

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