



PRODUCT PROFILE

GENERIC DESCRIPTION Novolac Vinyl Ester

COMMON USAGE Superior protection against organic and inorganic acids and sour crude when stored at elevated temperatures in insulated tanks. Sprayable lining for tanks and vessels. Provides splash, spillage and fume protection for structural surfaces and secondary containment. Frequently used as a topcoat for additional chemical resistance with various epoxy flooring and wall systems. **Note:** Contact your Tnemec representative or Tnemec Technical Services with specific chemical exposures.

COLORS 5002 Beige (primer only) and 5001 Gray (finish coat only)
Color change will occur when Series 120 is exposed to sunlight; also, batch-to-batch color variations can be expected.

FINISH Semi-gloss

PERFORMANCE CRITERIA Extensive test data available. Contact your Tnemec representative for specific test results.

COATING SYSTEM

SURFACER/FILLER/PATCHER See: 120-5003 Vinester F & S, 218, 219

PRIMERS **Prepared Bare Concrete and Steel:** Series 120-5002
Thick-Film Floor and Wall Systems: Series 239, 275

SURFACE PREPARATION

STEEL SSPC-SP5/NACE 1 White Metal Blast with a minimum anchor pattern of 3.0 mils. Refer to Tnemec's Application Specification for Series 120 to Steel Substrates for specific requirements.

CONCRETE Allow to cure for 28 days. Abrasive blast referencing SSPC-SP13/NACE 6, ICRI CSP5 Surface Preparation of Concrete and Tnemec's Surface Preparation and Application Guide. Refer to Tnemec's Application Specification for Series 120 to Concrete Substrates for specific requirements.

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 Theoretical 89% (mixed). Series 120 Vinester system 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. See Practical Coverage Rates.

RECOMMENDED DFT 12.0 to 18.0 mils (305 to 455 microns) per coat (minimum of one coat 5002 primer and one coat 5001 finish coat).

CURING TIME

	Temperature	To Handle	To Recoat	Immersion
120-5001	75°F (24°C)	4 hours	6 hours min. 72 hours max.	72 hours min.
120-5002	75°F (24°C)	6 hours	6 hours min. 72 hours max.	72 hours min.

Note: Scarification required if maximum recoat time is exceeded.
Curing time varies with surface temperature, air movement, humidity and film thickness.

VOLATILE ORGANIC COMPOUNDS

Unthinned (theoretical)
120-5001: 0.64 lbs/gallon (77 grams/litre)
120-5002: 0.59 lbs/gallon (71 grams/litre)

Thinned 3% (theoretical)
120-5001: 0.83 lbs/gallon (99 grams/litre)
120-5002: 0.78 lbs/gallon (93 grams/litre)

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

PACKAGING 1 gallon (3.79L) kits. 3 gallon (11.4L) kits are available upon special request.

NET WEIGHT PER GALLON Series 120-5001: 10.98 ± 0.25 lbs (4.98 ± .11 kg)(mixed)
Series 120-5002: 10.80 ± 0.25 lbs (4.90 ± .11 kg)(mixed)

STORAGE TEMPERATURE Minimum 35°F (2°C) Maximum 90°F (32°C)

TEMPERATURE RESISTANCE (Dry) Continuous 300°F (149°C) Intermittent 450°F (232°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 TNEMEC'S CONTROL, THIS PRODUCT IS NON-RETURNABLE.

Part B: 12 months at recommended storage temperature.

FLASH POINT - SETA Part A: 90°F (32°C) Part B: 190°F (88°C)

HEALTH & SAFETY Paint products contain 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.

VINESTER® | SERIES 120

APPLICATION

COVERAGE RATES

(Practical)

Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Gal (m ² /Gal)
12.0-18.0 (305-455)	20.0-25.0 (510-635)	60-80 (5.6-7.4)

Practical spreading rates are based on typical field applications. 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. 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

Use No. 19 Thinner. For air or airless spray, thin up to 3% per gallon if needed for good atomization.

POT LIFE

3 to 5 hours at 65°F (18°C) 1 1/2 to 2 1/2 hours at 75°F (24°C) †
 † 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.

APPLICATION EQUIPMENT

Air Spray

Gun	Fluid Tip	Air Cap	Air Hose ID	Mat'l Hose ID	Atomizing Pressure	Pot Pressure
DeVilbiss JGA	E	78	5/16" or 3/8" (7.9 or 9.5 mm)	3/8" or 1/2" (9.5 or 12.7 mm)	60-80 psi (4.1-5.5 bar)	10-20 psi (0.7-1.4 bar)

Low temperatures or longer hoses require higher pot pressure.

Airless Spray

Tip Orifice	Atomizing Pressure	Mat'l Hose ID	Manifold Filter
0.015"-0.021" (380-535 microns)	2400-3000 psi (165-207 bar)	1/4" or 3/8" (6.4 or 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.

Note: Two or more coats may be required to obtain recommended film thicknesses.

SURFACE TEMPERATURE

Minimum 60°F (16°C) Maximum 110°F (43°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 120 will not cure properly or obtain maximum chemical resistance. Following application, the surface temperature must be held at or above 60°F (16°C) until the coating surface is tack free approximately 8 hours at 60°F (16°C) surface temperature, 6 hours at 70°F (21°C) surface temperature, 4 hours at 80°F (27°C) surface temperature to avoid incomplete polymerization. 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.

CLEANUP

Flush and clean all equipment immediately after use with the recommended thinner or MEK. If material begins to exotherm, flush equipment immediately.

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