



# CHEMBLOC SERIES 251SC

## PRODUCT PROFILE

**GENERIC DESCRIPTION** Novolac Vinyl Ester

**COMMON USAGE** A chemical resistant primer for use with Series 252SC secondary containment system. **Note:** Contact your Tnemec representative or Tnemec Technical Services with specific chemical exposures.

**COLORS** 5002 Beige (primer only)

## COATING SYSTEM

**SURFACER/FILLER/PATCHER** Series 215, 218. **Note:** A repair kit of 201, with Part C fumed silica, is available for small patching/surfacing repairs (reference Technical Bulletin 99-22). For more extensive repairs and additional information, contact your Tnemec representative or Tnemec Technical Services.

**TOPCOATS** Series 252SC

## 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 251SC to Steel Substrates for specific requirements.

**CONCRETE** Allow new concrete to cure for 28 days. Verify dryness by testing for moisture with a "plastic film tape-down test" (Reference ASTM D 4263). Should moisture be detected, perform "Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride" (Reference ASTM F 1869). Moisture content not to exceed three pounds per 1,000 sq ft in a 24 hour period. Abrasive blast or equivalent to remove laitance, curing compounds, hardeners, sealers and other contaminants and to provide surface profile (Reference SSPC-SP13/NACE 6, ICRI CSP5). Large voids, bugholes and other cavities should be filled with recommended filler or surfacer.

**ALL SURFACES** Must be clean, dry and free of oil, grease and other contaminants.

## TECHNICAL DATA

**VOLUME SOLIDS** Theoretical 89% (mixed). Series 251SC 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 Coverage Rates.

**RECOMMENDED DFT** 4.0 to 12.0 mils (100 to 305 microns)

**CURING TIME**

Temperature	To Topcoat
75°F (24°C)	6 to 72 hours

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

**VOLATILE ORGANIC COMPOUNDS** 0.59 lbs/gallon (71 grams/litre)

**THEORETICAL COVERAGE** 1,123 mil sq ft/gal (27.6 m<sup>2</sup>/L at 25 microns). See APPLICATION for coverage rates.

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

**PACKAGING**

	PART A (partial fill)	PART B	Yield (mixed)
SK	1-1 gallon pail	1-4 oz. bottle	1 gallon

**NET WEIGHT PER GALLON** 10.80 ± 0.25 lbs (4.90 ± .11 kg) (mixed)

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

**Note:** Material should be stored at temperatures between 70°F and 80°F (21°C and 27°C) for at least 48 hours prior to use.

**TEMPERATURE RESISTANCE** (Dry) Continuous 300°F (149°C) Intermittent 325°F (163°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.**

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## APPLICATION

**COVERAGE RATES**

(Practical)

Dry Mils (Microns)	Wet Mils (Microns)	Sq Ft/Kit (m <sup>2</sup> /Kit)
4.0-12.0 (100-305)	5.5-17.0 (140-430)	281-94 (26.1-8.7)

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.

**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**

For airless spray, thin up to 3% per gallon with No. 19 Thinner 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**

Brush, roller and airless spray.  
**Roller:** Use high quality 3/8" to 1/2" nap, shed resistant, woven fabric roller cover.  
**Brush:** Use high quality natural or synthetic bristle brush. **Note:** Two or more coats may be required to obtain recommended film thicknesses.

**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.

**SURFACE TEMPERATURE**

Minimum 55°F (13°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 55°F (13°C), Series 251SC will not cure properly or obtain maximum chemical resistance. Following application, the surface temperature must be held at or above 55°F (13°C) until the coating surface is tack free approximately 8 hours at 55°F (13°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.

**MATERIAL TEMPERATURE**

For optimum application, handling and performance, the material temperature during application should be between 70°F and 80°F. (21°C and 27°C). Temperature will affect the workability. Cool temperatures increase viscosity and decrease workability. Warm temperatures will decrease viscosity and shorten pot life. THIS PRODUCT SHOULD NOT BE APPLIED BELOW 60°F (16°C) MATERIAL TEMPERATURE.

**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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