ADHESION

METHOD: ASTM D 4541.

SYSTEM: Series 251SC/252SC ChemBloc applied to concrete and cured four days at 75°F (24°C).

REQUIREMENT: Exceeds the cohesive strength of concrete (approximately 400 psi), average of three tests.

METHOD: ASTM D 4541.

SYSTEM: Two coat system Series 251SC/252SC ChemBloc applied to SSPC-SP5/NACE No. 1 White Metal Blast Cleaned steel and cured 14 days at 75°F (24°C).

REQUIREMENT: No less than 1,000 psi (6.89 MPa) pull, average of three tests.

CHEMICAL IMMERSION

METHOD: Immersion at 75°F (24°C) in accordance with NACE TM-01-74, Procedure B.

SYSTEM: Two coat system Series 251SC/252SC ChemBloc applied to SSPC-SP10/NACE No. 2 Near-White Metal Blast Cleaned steel and cured seven days at 75°F (24°C).

REQUIREMENT: No blistering, cracking, rusting or delamination of film after 72 hours continuous contact with chemical. Check with your Tnemec representative for further chemical resistance information.

Reagents:

Aluminum Chloride	Hydrogen Peroxide 30%
Ammonium Hydroxide 5-50%	Bromine 5%
Calcium Hypochlorite 5%	Potassium Permanganate
Phosphoric Acid 10-85%	Sodium Hydroxide 10-50%
Citric Acid 5-50%	Sulfuric Acid 10-80%
Methanol	Ferric Chloride 5-43%
Sodium Fluoride	Sodium Silicofluoride

DRY HEAT RESISTANCE

METHOD: Muffle furnace at varying temperatures.

SYSTEM: Two coat system Series 251SC/252SC ChemBloc.

REQUIREMENT: No cracking, delamination or loss of adhesion of film when subjected to temperatures up to 450°F (230°C) for 16 hours.

FLEXURAL STRENGTH

METHOD: As reported in resin manufacturer's literature.

SYSTEM: Series 252SC ChemBloc cured 14 days at 75°F (24°C).

REQUIREMENT: 19,000 psi (130.9 MPa) flexural strength, average of three tests (TR4439)

HARDNESS

METHOD: ASTM D 2583 (Barcol 934 Impressor).

SYSTEM: Series 251SC/252SC ChemBloc cured 24 hours at 75°F (24°C).

REQUIREMENT: Not less than 40, average of five readings.

TENSILE STRENGTH

METHOD: As reported in resin manufacturer's literature.

SYSTEM: Series 252SC ChemBloc cured 14 days at 75°F (24°C).

REQUIREMENT: 12,400 psi (85.5 MPa) tensile strength, average of five tests. (TR4439)

WATER ABSORPTION

METHOD: ASTM C 413.

SYSTEM: Series 251SC/252SC ChemBloc cured four days at 75°F (24°C).

REQUIREMENT: 0.138% water absorption, average of three tests.