

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)

ChemBloc | SERIES 252SC

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.

This product will meet or exceed the above test requirements established for the coating systems listed. Test performance results were obtained in a controlled environment and Tnemec Company makes no claim that these tests or any other tests accurately represent all environments. As application, environmental and design factors can vary significantly, due care should be exercised in the selection and use of the coating. Published technical data is subject to change without notice. The online catalog at www.tnemec.com should be referenced for the most current technical data and instructions. For additional performance criteria and specific test results, contact Tnemec Company or its representative.