Meeting/Effective Date: 5/7/03, 4/19/05, 10/05/06

NEPOVERCOAT Qualified Products List M

for Protective Coatings for
MAINTENANCE OVERCOATING of Previously Painted Existing Steel Bridges

COATING SYSTEMS TESTED AND ACCEPTED

NEPOVERCOAT QPL LIST **M**

NEPCOAT Coating System No.	Coats		Manuf'r Coating DFT (min/range) mil	micron	Manufr VOC g/L	QPL Accepted Dates
M3-99	(6F)	CARBOLINE COMPANY				from
	P	Carboguard® 954 HB (Rust Bond HB) 100% solids epoxy	5	125	206	5/7/03
	I	Carboguard® 954 HB (Rust Bond HB) 100% solids epoxy	3	75	206	until
	T	Carbocoat® 30 (Subsil 30 HS) 30% silicone alkyd	2	50	305	(note 8)
M6-99	(11L)	RUST-OLEUM® CORPORATION				from
	P	MATHYS Noxyde Plus WB SC acrylic elastomeric	7	175	2	5/7/03
	I	-----	---	---	---	until
	T	MATHYS Noxyde Plus WB SC acrylic elastomeric	7	175	2	(note 8)
	Note: In testing this product was difficult to apply with brush & roller, and left pronounced brush & roller marks after drying.					
M8-99	(13N)	WASSER HIGH-TECH COATINGS				from
	P	MC-MioAluminum MIO SC moisture cure urethane	1.5-2	38-50	< 340	5/7/03
	I	MC-Ferromastic MIO SC moisture cure urethane	3-5	75-125		until
	T	MC-Ferrox A MIO SC moisture cure urethane	2-4	50-100	< 340	(note 8)

NOTES:

1. NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT
2. NEPOVERCOAT is a three-year field testing program of the NEPCOAT committee for qualifying and accepting coating products for maintenance overcoating previously painted existing steel bridges. Corrosion Control Consultants & Labs, Inc. conducted the testing program, including surface preparation, coating application, and performance evaluations. The States provided salvage steel beams for testing at the following sites: Farmington, ME, Scarborough, ME, New Haven, CT, and New Castle, PA.
3. Each product was applied to these surfaces: (a) intact existing coating; (b) surfaces hand tool cleaned (SP2) with chisel, wire brush, and scraper; (c) surfaces power tool cleaned (SP3) with needle gun, roto-peen , 3M Scotch-Brite™ Clean and Strip disk sander; (d) surfaces cleaned to SP11 condition with roto-peen; and (e) chloride-contaminated pre-rusted metal bar welded to the test beam and cleaned half to SP2 and half to SP3. All surfaces were first power washed at 3,500 psi with a rotating zero-degree nozzle and offset 4-6 inches from the surface. Each test panel was scribed (surface f). During the winter months all test patches were sprayed with 1% salt water. A roof shelter was built over half of the test panels.
4. All coatings were applied by brush and roller (no spray) and according to manufacturer's recommendations.
5. (Mx-99) products comply with NEPOVERCOAT 99 Testing Program (5/19/99) & Acceptance Criteria (4/17/03).
6. DFT and VOC values are from the manufacturer. The NEPCOAT max limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ.
7. Any change in formulation of the product from that tested will result in removal of the product from the QPL.
8. The term of QPL acceptance is provisional pending future review of performance.

Key P= Primer I= Intermediate T= Topcoat HB= High Build MC= Moisture cure MIO= Micaceous iron oxide SC= Single component U= Urethane WB= Water based

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NEPOVERCOAT Qualified Products List M

for Protective Coatings for
MAINTENANCE OVERCOATING of Previously Painted Existing Steel Bridges

Coating System No.	Coats	COATING SYSTEMS TESTED AND ACCEPTED	Manuf'r Coating DFT (min/max) mil	micron	Manufr VOC g/L	QPL Accepted Dates

NEPOVERCOAT QPL LIST **M**

ACCEPTANCE CRITERIA:

1 The acceptance criteria included the average results from all four state sites (except as noted) and these requirements:
- that surfaces (a)(b)(c)(d)(f) receive a (min.) rating of 9 out of 10 (Farmington, ME site excluded from (a)(b)(c)(f));
- for surface (d) only the sheltered panels were included;
- that the power tool side of surface (e) receive a (min.) rating of 6.5 out of 10 (New Castle, PA site excluded).

The performance ratings came from a CCC&L rating system. See note 3 above for description of surfaces.

2 The suitability of applying the coating by brush and roller was noted but not required for acceptance.

3 The final appearance was noted. Systems varied on gloss and color retention, and presence of brush and roller marks.

COMMENTS:

1 It is important to properly evaluate the condition of the existing coating to determine suitability for overcoating. See the reference SSPC-TU 3, Overcoating.

2 Power washing is suggested. Clean surfaces of chloride contaminants. Test for chlorides following surface preparation.

3 Coatings performed better with greater surface preparation (e.g. SP11 > SP3). SP2 hand tool preparation is not suggested.

4 Apply the coating product according to the coating manufacturer's recommendations.