

NEPCOAT- Qualified Products List

for Protective Coatings for New and 100% Bare Existing Steel for Bridges

Nepcoat System No.	Coats	PRODUCTS - TESTED AND ACCEPTED	Slip Coef Class	Recom'd DFT (min/max) mil	Coating (micron)	VOC (Delivered) lb/gal	g/L	QPL Approval Dates
<u>NEPCOAT SYSTEM A - INORGANIC zinc rich primer / epoxy or urethane intermediate / aliphatic urethane finish</u>								
A7-97	(T30)	CARBOLINE COMPANY						from
	Primer	Carbozinc 11 HS	B	2-3	50-75	2.4	288	3/3/99
	Inter	Carboguard 893 Epoxy Intermediate		4-6	100-150	1.6	195	until
	Finish	Carbothane 133 HB Aliphatic Polyurethane		3-5	75-125	3.2	384	3/3/04**
A8-97*	(T36)	INTERNATIONAL PROTECTIVE						from
	Primer	Interzinc 22 HS IOZ Silicate	B	2-3	50-75	2.8	340	3/30/00
	Inter	Intergard 475 HS Epoxy		5-8	125-200	1.5	175	until
	Finish	Interthane 990 HS Polyurethane		2-3	50-75	2.7	327	3/30/03
A9 -97	(T47)	AMERON PROTECTIVE COATINGS						from
	Primer	Dimetcote D9 HS Inorganic Zinc Primer	B	3-4	75-100	2.7	320	3/28/01
	Inter	Amercoat 385 Multi-Purpose Epoxy		4-6	100-150	2.3	280	until
	Finish	Amercoat 450 HS Aliphatic Polyurethane		2-3	50-75	2.4	282	3/28/05

NOTES:

- 1 NEPCOAT-NORTHEAST PROTECTIVE COATING COMMITTEE of CT, ME, MA, NH, NJ, PA, RI, VT
- 2 Systems are accepted for use on NEW and 100% BARE EXISTING steel (cleaned by abrasive blasting) for bridges.
- 3 (Ax-94) Systems comply with NEPCOAT 94 Testing Standard (6/15/94) & Acceptance Criteria (6/5/96).
- 4 (Ax-97) Systems comply with NEPCOAT 97 Testing Standard (6/1/97) & Acceptance Criteria (3/30/00).
The -97 VOC values are provided by the testing lab. NEPCOAT max limit (3.5 lb/gal). DFT values are from manufacturer.
- 5 Any change in formulation from that tested will result in removal of the system from the QPL.
- 6 The full QPL term is four years from the date of acceptance.
- * Acceptance is CONDITIONAL pending submission within three years of successful 2-year field history.
- ** The term is extended for one year if the identical system is being retested at the end of the term.

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NEPCOAT SYSTEM B - ORGANIC zinc rich primer / epoxy or urethane intermediate / aliphatic urethane finish						
B7-97	(T31)	CARBOLINE COMPANY				from
	Primer	Carbozinc 859 Zinc Rich Epoxy Primer	B	3-5 75-125	2.7 325	2/18/99
	Inter	Carboguard 888 Epoxy Intermediate		3-5 75-125	2.8 330	until
	Finish	Carbothane 133 HB Aliphatic Polyurethane		3-5 75-125	3.2 384	2/18/04**
B8-97*	(T42)	XYMAX COATINGS				from
	Primer	MonoZinc ME III Moisture Cure Primer	B	3-4 75-100	3.0 360	3/28/01
	Inter	MonoFerro PUR Moisture Cure		3-4 75-100	1.4 170	until
	Finish	Bridge Finish		2-3 50-75	3.0 362	3/28/04
B9-97*	(T45)	SHERWIN WILLIAMS				from
	Primer	Zinc Clad III HS	B	3-5 75-125	2.8 330	3/28/01
	Inter	Macropoxy 646		5-10 125-250	1.9 230	until
	Finish	Acrolon 218 Acrylic		3-6 75-150	3.3 400	3/28/04
B10-97*	(T49)	M.A.B. INDUSTRIAL COATINGS				from
	Primer	Ply-Tile Epoxy Organic Zinc Primer	A	2.5-3.5 63-88	3.5 420	3/28/01
	Inter	Ply-Mastic Epoxy		5-7 125-175	1.3 150	until
	Finish	Ply-Thane 890 HS		2-6 50-150	2.6 310	3/28/04

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- 3 (Bx-94) Systems comply with NEPCOAT 94 Testing Standard (6/15/94) & Acceptance Criteria (6/5/96).
(Bx-97) Systems comply with NEPCOAT 97 Testing Standard (6/1/97) & Acceptance Criteria (3/30/00).
The -97 VOC values are provided by the testing lab. NEPCOAT max limit (3.5 lb/gal). DFT values are from
- 4 manufacturer.
- 5 Any change in formulation from that tested will result in removal of the system from the QPL.
- 6 The full QPL term is four years from the date of acceptance.
- * Acceptance is CONDITIONAL pending submission within three years of successful 2-year field history.
- ** The term is extended for one year if the identical system is being retested at the end of the term.

NEPCOAT ACCEPTANCE CRITERIA

for Protective Coatings for New and 100% Bare Existing Steel for Bridges

'94 Testing Standard (6/15/94) & Acceptance Criteria (6/5/96)

'97 Testing Standard (6/1/97) & Acceptance Criteria modified 7/22/97, 3/3/99, 9/22/99, 3/30/00

TEST NO. 1 SLIP COEFFICIENT Acceptance criteria (min.)

OZ Report results only

IOZ Slip coefficient 0.5 (Class B) required

TEST NO. 2 B117 SALT FOG RESISTANCE

Rust / Blistering Acceptance criteria (max.):

		----- RUST CRITERIA -----				BLISTER CRITERIA	
	Coat	@ Hours	max creep	ave creep	% Length	@ Hours	Conversion #
OZ	Primer	5000	4 mm	2 mm	3%	4000	6
	Inter	5000	4 mm	2 mm	3%	4000	7
	Finish	5000	4 mm	2 mm	3%	4000	7
IOZ	Primer	5000	1.5 mm	1 mm	2%	5000	10
	Inter	5000	4 mm	2 mm	3%	4000	8
	Finish	5000	4 mm	2 mm	3%	4000	8

TEST NO. 3 D5894 CYCLIC WEATHERING RESISTANCE

Rust / Blistering Acceptance criteria (max.):

		----- RUST CRITERIA -----				BLISTER CRITERIA	
	Coat	@ Hours	max creep	ave creep	% Length	@ Hours	Conversion #
OZ	Primer	5000	4 mm	2 mm	report only	4000	7
	Inter	5000	4 mm	2 mm	report only	4000	8
	Finish	5000	4 mm	2 mm	report only	4000	8
IOZ	Primer	5000	1.5 mm	1 mm	report only	5000	10
	Inter	5000	4 mm	2 mm	report only	4000	9
	Finish	5000	4 mm	2 mm	report only	4000	9

Gloss Retension Acceptance criteria: Report results only

Color Difference Acceptance criteria: Report results only

TEST NO. 4 D2247 RELATIVE HUMIDITY RESISTANCE

Rust / Blistering Acceptance criteria at 4,000 hours (max.):

Rust creepage at scribe 0.8 mm
Total rusting at scribe 2%
Blistering none (conv. # 10)

TEST NO. 5 D4060 ABRASION RESISTANCE

Wear Index Acceptance criteria: Report results only

TEST NO. 6 D4541 ADHESION

Pull-Off Strength Acceptance criteria (min.):

OZ 4.1 MPa (600 psi)

IOZ 1.7 MPa (250 psi)

TEST NO. 7 FREEZE THAW STABILITY

Pull-Off Strength Acceptance criteria (min.):

OZ 4.1 MPa (600 psi)

IOZ 1.7 MPa (250 psi)