

# 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 Coating DFT (min/max) mil	VOC (Delivered) lb/gal	g/L	QPL Approval Date
<u>NEPCOAT SYSTEM A - INORGANIC zinc rich primer / epoxy or urethane intermediate / aliphatic urethane finish</u>							
A6-97*	(T28)	SIGMA COATINGS					Mar-3-99
	Primer	Silguard Moisture Cure II (7551 US)	A	2-4	50-100	2.8 336	
	Inter	Sigmarite Unicoat (5483)		3-6	75-150	2.1 252	
	Finish	Sigmadur HSA Urethane (5523)		1.5-3	38-75	3.1 372	
A7-97	(T30)	CARBOLINE COMPANY					Mar-3-99
	Primer	Carbo Zinc 11 HS	B	2-3	50-75	2.4 288	
	Inter	Carboline 893 Epoxy Intermediate		4-6	100-150	1.6 195	
	Finish	Carbothane 133 HB Aliphatic Polyurethane		3-5	75-125	3.2 384	
A8-97*	(T36)	INTERNATIONAL PROTECTIVE					Mar-30-00
	Primer	Interzinc 22 HS IOZ Silicate	B	2-3	50-75	2.8 340	
	Inter	Intergard 475 HS Epoxy		5-8	125-200	1.5 175	
	Finish	Interthane 990 HS Polyurethane		2-3	50-75	2.7 327	
A9 -97*	(T47)	AMERON PROTECTIVE COATINGS					Mar-28-01
	Primer	Dimetcote D9 HS Inorganic Zinc Primer	B	3-4	75-100	2.7 320	
	Inter	Amercoat 385 Multi-Purpose Epoxy		4-6	100-150	2.3 280	
	Finish	Amercoat 450 HS Aliphatic Polyurethane		2-3	50-75	2.4 282	

**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).  
(Ax-97) Systems comply with NEPCOAT 97 Testing Standard (6/1/97) & Acceptance Criteria (3/30/00).
- 4 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 4-year term is extended for one year if the identical system is being retested at the end of the 4-year term.

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<u>NEPCOAT SYSTEM B - ORGANIC zinc rich primer / epoxy or urethane intermediate / aliphatic urethane finish</u>						
B2-94*	(T5)	KEELER & LONG, INC.				June-5-96
	Primer	Kolorane 9700 Zinc Rich Primer	B	2-6	50-150 2.46 295	(1-yr ext'n)**
	Inter	Kolor-poxy 3200		2.5-6	63-150 2.52 302	
	Finish	Acrythane Y-Series Urethane		2-4	50-100 3.50 420	
B5-94	(T18)	WASSER HIGH TECH COATINGS				Jan-8-97
	Primer	MC-Zinc	not tested	3-5	75-125 2.8 336	(1-yr ext'n)**
	Inter	MC-Ferrox B		3-5	75-125 2.8 336	
	Finish	MC-Ferrox A		2-4	50-100 2.8 336	
B6-94*	(T24)	AMERON PROTECTIVE COATINGS				May-20-98
	Primer	Vyguard 513-F-108 (M-202) MC U zinc rich	B	2-3	50-75 2.62 314	
	Inter	Vyguard 541-D-102 (M207) MC U intermediate		3-5	75-125 2.62 314	
	Finish	Vyguard V41 Series (M222) Urethane topcoat		5-6	125-150 2.40 288	
B7-97*	(T31)	CARBOLINE COMPANY				Feb-18-99
	Primer	Carboline 859 Zinc Rich Epoxy Primer	B	3-5	75-125 2.7 325	
	Inter	Carboline 888 Epoxy Intermediate		3-5	75-125 2.8 330	
	Finish	Carbothane 133 HB Aliphatic Polyurethane		3-5	75-125 3.2 384	
B8-97*	(T42)	XYMAX COATINGS				Mar-28-01
	Primer	MonoZinc ME III Moisture Cure Primer	B	3-4	75-100 3.0 360	
	Inter	MonoFerro PUR Moisture Cure		3-4	75-100 1.4 170	
	Finish	Bridge Finish		2-3	50-75 3.0 362	
B9-97*	(T45)	SHERWIN WILLIAMS				Mar-28-01
	Primer	Zinc Clad III HS	B	3-5	75-125 2.8 330	
	Inter	Macropoxy 646		5-10	125-250 1.9 230	
	Finish	Acrolon 218 Acrylic		3-6	75-150 3.3 400	
B10-97*	(T49)	M.A.B. INDUSTRIAL COATINGS				Mar-28-01
	Primer	Ply-Tile Epoxy Organic Zinc Primer	A	2.5-3.5	63-88 3.5 420	
	Inter	Ply-Mastic Epoxy		5-7	125-175 1.3 150	
	Finish	Ply-Thane 890 HS		2-6	50-150 2.6 310	

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# 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
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
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 Retention 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)