

NEPCOAT - Qualified Products - List A

for Protective Coatings for
NEW and 100% BARE EXISTING Steel for Bridges

Nepcoat Product No.	Coats	PRODUCTS - TESTED AND ACCEPTED	Slip Coef Class	Recom'd Coating DFT (min/max) mil	VOC (Delivered) lb/gal	g/L	QPL Approval Dates
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NEPCOAT LIST A - INORGANIC zinc rich primer / epoxy or urethane intermediate / aliphatic urethane finish

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**
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 is the NORTHEAST PROTECTIVE COATING COMMITTEE of CT, ME, MA, NH, NJ, NY, PA, RI, VT
 - 2 Products are accepted for use on NEW and 100% BARE EXISTING steel (cleaned by abrasive blasting) for bridges.
 - 3 (Ax-94) Products comply with NEPCOAT 94 Testing Standard (6/15/94) & Acceptance Criteria (6/5/96).
 (Ax-97) Products 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.
 - 4
 - 5 Any change in formulation from that tested will result in removal of the product 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 product is being retested at the end of the term.
- HB= High Build MC= Moisture Cured MIO= Micaceous Iron Oxide PU= Polyurethane ZR= Zinc Rich

NEPCOAT - Qualified Products - List B

for Protective Coatings for
NEW and 100% BARE EXISTING Steel for Bridges

Nepcoat Product	Slip Coef	Recom'd Coating DFT (min/max)	VOC (Delivered)	QPL Approval
No. Coats	Class	mil micron	lb/gal g/L	Dates
NEPCOAT LIST 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 Cured Primer	B 3-4	75-100 3.0 360	3/28/01
Inter	MonoFerro PUR Moisture Cured	3-4	75-100 2.2 270	until
Finish	Bridge Finish MIO Moisture Cured Topcoat	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
B11-97*	AMERON PROTECTIVE COATINGS			from
Primer	Amercoat 430 Moisture Cured ZR Polyurethane Primer	B 3-4	75-100 3.0 360	3/28/01
Inter	Amercoat 433 MC Polyurethane Intermediate w/ MIO	3-4	75-100 2.2 270	until
Finish	Amercoat 434 MC Aliphatic PU Topcoat w/ MIO	2-3	50-75 3.0 362	3/28/04

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(Ax-97) Products 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.
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NEPCOAT - Acceptance Criteria - List A, B

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)