



NEPCOAT Qualified Products List A

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

NEPCOAT or NTPEP System No.	Coats	3-COAT SYSTEM TESTED AND ACCEPTED	Slip Coef Class	Manuf'r Coating DFT (min/max) mil micron	VOC Tested g/L	QPL Accepted Dates
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NEPCOAT LIST A - INORGANIC Zinc Rich Primer / Epoxy or Urethane Intermediate / Aliphatic Urethane Finish

SSC(03)-01 (A7-97)	CARBOLINE COMPANY					from
	P Carbozinc 11 HS		B ¹	2-6 50-150	278	2/15/05
	I Carboguard 893 Epoxy Intermediate			3-6 75-150	189	until
	T Carbothane 133 HB Aliphatic Polyurethane			3-7 75-175	370	spring 2010
	¹ Footnote 6 mils max DFT, 18 hrs min cure, 15 oz/gal max thin					
A9 -97 (T47)	AMERON INTERNATIONAL					from
	P Dimetcote 9HS Inorganic Zinc Primer		B ¹	3-4 75-100	320	3/28/01
	I Amercoat 385 Multi-Purpose Epoxy			4-6 100-150	280	until
	T Amercoat 450 HS Aliphatic Polyurethane			2-3 50-75	282	spring 2006**
	¹ Footnote 4 mils max DFT, 24 hrs min cure, 8 oz/gal max thin'r					
SSC(03)-08*	INTERNATIONAL PAINT INC					from
	P Interzinc 22 HS Inorganic Zinc Primer		B ¹	2.5-5 63-125	365	2/15/05
	I Intergard 475 HS Epoxy			4-8 100-200	191	until
	T Interthane 870 Polyurethane			3-5 75-125	405	spring 2008
	¹ Footnote 4 mils max DFT, 16 hrs min cure, 8 oz/gal max thin'r					

¹ Footnote Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections.

NOTES

- 1 NEPCOAT is the NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, ME, MA, NH, NJ, NY, PA, RI, VT
 - 2 Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria.
 - 3 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting.
 - 4 (Ax-97) systems comply with NEPCOAT 97 Testing Standard (6/1/97) & Acceptance Criteria (3/30/00).
 - 5 SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria.
 - 6 VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ.
 - 7 DFT values are recommended by the manufacturer.
 - 8 Any change in coating formulation from that tested will result in removal of the system from the QPL.
 - 9 The QPL term is 5 years starting from the date of acceptance until the next bi-annual NEPCOAT meeting. See R-31.
 - * Acceptance is CONDITIONAL pending submission within three years of successful 2-year field history.
 - ** The term is extended up to one year if the identical system is being retested at the end of the term.
- Key P= Primer I= Intermediate T= Topcoat HB= High Build HS= High solids DT= Direct to



NEPCOAT Qualified Products List B

for Protective Coatings for

NEW and 100% BARE EXISTING Steel for Bridges

NEPCOAT or NTPEP System No.	Coats	3-COAT SYSTEM TESTED AND ACCEPTED	Slip Coef Class	Manuf'r Coating DFT (min/max) mil micron	VOC Tested g/L	QPL Accepted Dates
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NEPCOAT LIST B - ORGANIC Zinc Rich Primer / Epoxy or Urethane Intermediate / Aliphatic Urethane Finish

SSC(03)-02 (B7-97)	CARBOLINE COMPANY					from
	P Carbozinc 859 Zinc Rich Epoxy Primer	B ¹	3-10	75-225	326	2/15/05
	I Carboguard 888 Epoxy Intermediate		3-10	75-225	331	until
	T Carbothane 133 HB Aliphatic Polyurethane		3-7	75-175	370	spring 2010
	¹ Footnote 6 mils max DFT, 4 days min cure, 10% vol max thin					
B9-97 (T45)	SHERWIN WILLIAMS COMPANY					from
	P Zinc Clad III HS Organic Zinc Rich Primer	B ¹	3-5	75-125	330	3/28/01
	I Macropoxy 646 Fast Cure Epoxy		5-10	125-250	230	until mtg.
	T Acrolon 218 HS Acrylic Polyurethane		3-6	75-150	300	spring 2006**
	¹ Footnote 5 mils max DFT, 7 days min cure, 10% vol max thin					
SSC(03)-11*	PPG INDUSTRIES					from
	P Aquapon® Zinc Rich Primer 97-670	B ¹	3-4	76-102	383	2/15/05
	I Pitt-Guard® DT Rust Epoxy 97-946		4-7	102-178	241	until
	T Pitthane® HB Urethane Enamel 95-8800		2-5	51-127	267	spring 2008
	¹ Footnote 4 mils max DFT, 24 hrs min cure					
SSC(03)-12*	INTERNATIONAL PAINT INC					from
	P Interzinc 52 Organic Zinc	∅	2-3	50-75	364	2/15/05
	I Intergard 475 HS Epoxy		4-8	100-200	191	until
	T Interfine 979 Polysiloxane		3-6	75-150	206	spring 2008
	∅Footnote The test was delayed - results are coming later					

¹ Footnote Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections.
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 - 3 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting.
 - 4 (Ax-97) systems comply with NEPCOAT 97 Testing Standard (6/1/97) & Acceptance Criteria (3/30/00).
 - 5 SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria.
 - 6 VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ.
 - 7 DFT values are recommended by the manufacturer.
 - 8 Any change in coating formulation from that tested will result in removal of the system from the QPL.
 - 9 The QPL term is 5 years starting from the date of acceptance until the next bi-annual NEPCOAT meeting. See R-31.
 - * Acceptance is CONDITIONAL pending submission within three years of successful 2-year field history.
 - ** The term is extended up to one year if the identical system is being retested at the end of the term.
- Key P= Primer I= Intermediate T= Topcoat HB= High Build HS= High solids DT= Direct to



NEPCOAT Qualified Products List C

for Protective Coatings for

NEW and 100% BARE EXISTING Steel for Bridges

NEPCOAT or NTPEP System No.	Coats		Slip Coef Class	Manuf'r Coating DFT (min/max) mil micron	VOC Tested g/L	QPL Accepted Dates
		2-COAT SYSTEM ¹⁰				
		TESTED AND ACCEPTED				

NEPCOAT LIST C - ORGANIC Zinc Rich Primer / ----- / Topcoat

SSC(02)-04*	SHERWIN WILLIAMS COMPANY					from
P	Corothane I Galva-Pac One Pack Zinc Primer	B ¹	3.5-4	90-100	298	4/19/05
I	-----		---	---	---	until
T	Fast-Clad DOT Urethane		6-9	150-225	263	spring 2008
¹ Footnote 4 mils max DFT, 24 hrs min cure						

¹ Footnote Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections.
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 - 3 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting.
 - 4 (Ax-97) systems comply with NEPCOAT 97 Testing Standard (6/1/97) & Acceptance Criteria (3/30/00).
 - 5 SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria.
 - 6 VOC values are lab test results using unthinned samples. NEPCOAT max VOC limit is 420 g/L (3.5 lb/gal). Individual state requirements for VOC limits may differ.
 - 7 DFT values are recommended by the manufacturer.
 - 8 Any change in coating formulation from that tested will result in removal of the system from the QPL.
 - 9 The QPL term is 5 years starting from the date of acceptance until the next bi-annual NEPCOAT meeting. See R-31.
 - 10 A two-coat system shall have a min. total 9 mils DFT and meet all other R-31 requirements.
 - * Acceptance is CONDITIONAL pending submission within three years of successful 2-year field history.
 - ** The term is extended up to one year if the identical system is being retested at the end of the term.
- Key P= Primer I= Intermediate T= Topcoat HB= High Build HS= High solids DT= Direct to



NEPCOAT Acceptance Criteria List A, B, C

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

'97 NEPCOAT Testing Standard (6/1/97) & NEPCOAT Acceptance Criteria (7/22/97, 3/3/99, 9/22/99, 3/30/00)
'02 AASHTO R31-02 Testing Standard & NEPCOAT Acceptance Criteria (3/16/04, 2/15/05)

TEST NO. 1 - SLIP COEFFICIENT

Primer Acceptance criteria (min.)
IOZ Slip coefficient 0.5 (Class B) required
OZ Report results only

TEST NO. 2 - SALT FOG RESISTANCE (ASTM B117)

Delamination Acceptance criteria: no delamination allowed
Rust / Blistering Acceptance criteria (max.):

//----- RUST CRITERIA -----//							-- BLISTER CRITERIA--	
<u>Primer</u>	<u>System</u>	<u>@ Hrs</u>	<u>max creep</u>	<u>ave creep</u>	<u>% length</u>	<u>in scribe</u>	<u>@ Hrs</u>	<u>Convers'n #</u>
IOZ	P-I-T	5000	4 mm	2 mm	not req'd	not req'd	4000	8
OZ	P-I-T	5000	4 mm	2 mm	not req'd	not req'd	4000	7

TEST NO. 3 - CYCLIC WEATHERING RESISTANCE (ASTM D5894)

Delamination Acceptance criteria: no delamination allowed
Rust / Blistering Acceptance criteria (max.):

//----- RUST CRITERIA -----//							-- BLISTER CRITERIA--	
<u>Primer</u>	<u>System</u>	<u>@ Hrs</u>	<u>max creep</u>	<u>ave creep</u>	<u>% length</u>	<u>in scribe</u>	<u>@ Hrs</u>	<u>Convers'n #</u>
IOZ	P-I-T	5040	4 mm	2 mm	not req'd	not req'd	4032	9
OZ	P-I-T	5040	8 mm	4 mm	not req'd	not req'd	4032	8

GLOSS value Acceptance criteria: Report results only
GLOSS % Retent'n Acceptance criteria: Report results only
COLOR Change, Δe Acceptance criteria: Report results only

TEST NO. 4 - ABRASION RESISTANCE (ASTM D4060)

Weight Loss Acceptance criteria: Report results only
Wear Index Acceptance criteria: Report results only

TEST NO. 5 - ADHESION (ASTM D4541)

Pull-Off Strength Acceptance criteria (min.) for both primer and PIT panels:
IOZ 2.4 MPa (350 psi)
OZ 4.1 MPa (600 psi)

TEST NO. 6 - FREEZE THAW STABILITY

Pull-Off Strength Acceptance criteria: to equal or exceed adhesion results of Test 5 for PIT panels

TEST NO. 7 - COATING IDENTIFICATION TESTS

VOC Acceptance criteria: Max. 420 g/L (3.5 lb/gal). Individual state requirements may differ.
Coating properties Acceptance criteria: Report only
Coating thickness Acceptance criteria: A 2-coat system shall be tested and applied at min. total 9 mils DFT.

TEST NO. 8 - ATMOSPHERIC EXPOSURE (TWO YEAR) at ocean beach site

Acceptance criteria: To be determined / Report results

ITEM NO. 9 - FIELD HISTORY (TWO YEAR) Field history on five projects in one of four regions of the country

Acceptance criteria: Report results