$\begin{aligned} &\text{Mtg/Date: } 6/5/96, \, 9/4/96, \, 1/8/97, \, 7/22/97, \, 5/20/98, \, 3/3/99, \, 9/22/99, \, 3/30/00, \, 11/8/00, \, 3/28/01, \, 5/14/01, \, 11/20/01, \, 11/29/01, \, 4/24/02, \, 2/24/03, \, 4/17/03, \, 3/16/04, \, 2/15/05, \\ &4/19/05 \ R1, \, 11/17/05 \ R1, \, 10/5/06 \ R1, \, 06/21/07, \, 10/16/08, \, 4/7/09 \ R1, \, 10/7/09 \ R1, \, 11/09/10, \, 01/25/11, \, 4/5/11 \ R2, \, 12/14/11, \, 4/3/12, \, 4/3/12 \ R1, \, 10/02/12, \, 10/02/12 \ R1, \\ &4/16/13, \, 11/15/13 \ R1, \, 04/14/14 \ R1, \, 10/07/14, \, 4/7/15, \, 10/6/15 \ R2, \, 04/05/16, \, 10/04/16 \ R1, \, 04/04/17, \, 10/3/17 \ R1, \, 4/3/18, \, 10/2/18, \, 4/2/19, \, 10/1/19, \, 12/10/20, \, 4/6/21, \, 10/5/21, \, 4/5/22, \, 4/4/23, \, 1/23/2024 \end{aligned}$ 



# **NEPCOAT Qualified Products List A**

for Protective Coatings for

**NEW** and **100% BARE EXISTING** Steel for Bridges

NTPEP			Slip	Manuf	'r Coating	VOC	QPL
System		3-COAT SYSTEM	Coef	DFT (min/max)		Tested	Accepted
No.	Coats	TESTED AND ACCEPTED	Class	mil	micron	g/L	Dates

NEPCOAT LIST A - INORGANIC Zinc Rich Primer / Epoxy or Urethane Intermediate / Aliphatic Urethane Finish

SSC(19)-03 *	CARBOLINE COMPANY					
Primer	Carbozinc® 11 HS Inorganic Zinc Primer	B <sup>1</sup>	2-6	50-150	289	12/10/20
Interm	Carboguard® 893 Epoxy Intermediate		3-6	75-150	225	until mtg.
Topcoat	Carbothane® 133 LV Aliphatic Polyurethane		3-5	75-125	252	fall 2024

<sup>1</sup> Footnote 6 mils max DFT, 18 hrs min cure, 12% max thinner

- 2 NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org.
  - 3 Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria.
  - 4 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting.
  - 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 Recommended DFT values are listed by manufacturer (see Product Data Sheets.)
- 8 Any change in coating formulation from that tested will result in removal of the system from the QPL.
- 9 The full QPL term is seven years starting from the date of acceptance until the next biannual NEPCOAT meeting.
- \* Acceptance is CONDITIONAL pending submission within <u>four</u> years of successful 2-year field history. A startup list of five bridges painted with the paint system must be submitted within two years. See Acceptance Criteria. Note that R-31-09 Section 12.1, Requalification Testing, has been discontinued.
- es VOC value adjusted for exempt solvents

<sup>&</sup>lt;sup>1</sup> Footnote Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections. NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT

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# **NEPCOAT Qualified Products List B**

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

NTPEP			Slip	Manuf'r Coating	VOC	QPL
System		3-COAT SYSTEM	Coef	DFT (min/max)	Tested	Accepted
No	Coats	TESTED AND ACCEPTED	Class	mil micron	σ/I	Dates

No.	Coats	TESTED AND ACCEPTED	Class	mii	micron	g/L	Dates
NEPCOAT	LIST <b>B</b>	- ORGANIC Zinc Rich Primer / Epoxy or Urethane Int	ermediate	e / Alipha	ntic Urethan	ne Finish	
SSC(15)-0'	7	SHERWIN WILLIAMS COMPANY					from
330(13)-0	Primer	Zinc Clad® 4100 Organic Zinc Rich Epoxy Primer	В <sup>1</sup>	3-5	75-125	319	10/3/17
			Ь				
	Interm	Macropoxy® 646 Fast Cure Epoxy		3-10	75-250	265	until mtg.
	-	Hi-Solids Polyurethane 250		3-4	75-100	234 es	spring 2025
	' Footnote	5 mils max DFT, 72 hours min cure, 5% max thinner					
SSC(18)-08	8 *	WASSER COATINGS					from
SSC(10)-0:	5 Primer	MC-Zinc 100	$^{1}$	3-5	75-125	140 es	10/01/19
	Interm	MC-Miomastic 100		3-5	75-125	106 es	until mtg.
	Topcoat	MC-Ferrox A 100		2-4	50-100	149 es	fall 2026
	<sup>1</sup> Footnote	5.5 mils max DFT, 72 hrs min cure, 10% max thinner					
SSC(18)-09	9 *	SHERWIN WILLIAMS COMPANY					from
	Primer	Zinc Clad® 4100 Organic Zinc Rich Epoxy Primer	$B^{1}$	3-5	75-125	336	10/01/19
	Interm	Macropoxy® 646 Fast Cure Epoxy		3-10	75-250	229	until mtg.
	Topcoat	Acrolon <sup>™</sup> 218 HS Acrylic Polyurethane		3-6	75-150	276	fall 2026
	-	5 mils max DFT, 72 hours min cure, 5% max thinner					
SSC(19)-02	2 *	CARBOLINE COMPANY					from
()	Primer	Carbozine® 859 Organic Zinc Rich Epoxy Primer	$B^{1}$	3-10	75-250	342	12/10/20
	Interm	Carboguard® 893 Epoxy Intermediate	D	3-6	75-150	218	until mtg.
		Carbothane® 133 LV Aliphatic Polyurethane		3-5	76-127	254	fall 2024
	-	6 mils max DFT, 6 days min cure, 10% vol max thin		3-3	70-127	234	1411 2024
	roomote	o mins max Dr 1, o days min cure, 10/0 voi max umi					

(continues) (List B continues)

<sup>1</sup> Footnote Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections. NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT

- 2 NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org.
- Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria.
- 4 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting.
- 5 SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria.
- WOC 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.
- Recommended DFT values are listed by manufacturer (see Product Data Sheets.)
- 8 Any change in coating formulation from that tested will result in removal of the system from the QPL.
- 9 The full QPL term is <u>seven</u> years starting from the date of acceptance until the next biannual NEPCOAT meeting.
- \* Acceptance is CONDITIONAL pending submission within <u>four</u> years of successful 2-year field history. A startup list of five bridges painted with the paint system must be submitted within two years. See Acceptance Criteria. Note that R-31-09 Section 12.1, Requalification Testing, has been discontinued.
- es VOC value adjusted for exempt solvents

Mtg/Date: 6/5/96, 9/4/96, 1/8/97, 7/22/97, 5/20/98, 3/3/99, 9/22/99, 3/30/00, 11/8/00, 3/28/01, 5/14/01, 11/20/01, 11/29/01, 4/24/02, 2/24/03, 4/17/03, 3/16/04, 2/15/05, 4/19/05 R1, 11/17/05 R1, 10/5/06 R1, 06/21/07, 10/16/08, 4/7/09 R1, 10/7/09 R1, 11/09/10, 01/25/11, 4/5/11 R2, 12/14/11, 4/3/12, 4/3/12 R1, 10/02/12, 10/02/12 R1, 4/16/13, 11/15/13 R1, 04/14/14 R1, 10/07/14, 4/7/15, 10/6/15 R2, 04/05/16, 10/04/16 R1, 04/04/17, 10/3/17 R1, 4/3/18, 10/2/18, 4/2/19, 10/1/19, 12/10/20, 4/6/21, 10/5/21 4/5/22, 4/4/23, 1/23/2024



# **NEPCOAT Qualified Products List B**

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

			,		
NTPEP		Slip	Manuf'r Coating	VOC	QPL
System	3-COAT SYSTEM	Coef	DFT (min/max)	Tested	Accepted

System 3-COAT SYSTEM Coef DFT (min/max) Tested Accepted No. Coats TESTED AND ACCEPTED Class mil micron g/L Dates

NEPCOAT LIST <b>B</b> - ORGANIC Zinc Rich Primer / Epoxy or Urethane Intermediate / Aliphatic Urethane Finish										
	SSC(22)-04 * PPG INDUSTRIES from									
SSC(22)-04 * PPG INDUSTRIES										
	Primer	SIGMAZINCTM 70 DOT	$B^{1}$	2-7	50-177	257 es	10/03/23			
	Interm	PPG DTM EPOXY 202 DOT		4-8	100-200	234 es	until mtg.			
	Topcoat	PITTHANE ULTRA   DOT 95-812 SERIES		2-3	50-75	250 es	fall 2027			
	Footnote	7 mils max DFT, 24 hrs. min cure, 10% vol max thin								
SSC(22)-01	*	PPG INDUSTRIES					from			
	Primer	SIGMAZINC <sup>TM</sup> 75 DOT	Failed <sup>1</sup>	2-7	50-177	277 es	10/03/23			
	Interm	AMERLOCK 600 DOT	To	3-10	125-250	232 es	until mtg.			
	Topcoat	PITTHANE ULTRA   DOT 95-812 SERIES	Meet B	2-3	50-75	242 es	fall 2027			

<sup>&</sup>lt;sup>1</sup> Footnote 7 mils max DFT, 48 hrs. min cure, 10% vol max thin Note: Not suitable for use in slip-critical connections.

<sup>1</sup> Footnote	Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections.
NOTE 1	NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT

- 2 NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org.
- Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria.
- 4 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting.
- 5 SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria.
- WOC 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.
- Recommended DFT values are listed by manufacturer (see Product Data Sheets.)
- 8 Any change in coating formulation from that tested will result in removal of the system from the QPL.
- The full QPL term is <u>seven</u> years starting from the date of acceptance until the next biannual NEPCOAT meeting.
- \* Acceptance is CONDITIONAL pending submission within <u>four</u> years of successful 2-year field history. A startup list of five bridges painted with the paint system must be submitted within two years. See Acceptance Criteria. Note that R-31-09 Section 12.1, Requalification Testing, has been discontinued.
- es VOC value adjusted for exempt solvents

Mtg/Date: 6/5/96, 9/4/96, 1/8/97, 7/22/97, 5/20/98, 3/3/99, 9/22/99, 3/30/00, 11/8/00, 3/28/01, 5/14/01, 11/20/01, 11/29/01, 4/24/02, 2/24/03, 4/17/03, 3/16/04, 2/15/05, 3/16/04, 3/4/19/05 R1, 11/17/05 R1, 10/5/06 R1, 06/21/07, 10/16/08, 4/7/09 R1, 10/7/09 R1, 11/09/10, 01/25/11, 4/5/11 R2, 12/14/11, 4/3/12, 4/3/12 R1, 10/02/12, 10/02/12 R1, 10/02/12 R1, 11/09/10, 01/25/11, 4/5/11 R2, 12/14/11, 4/3/12, 4/3/12 R1, 10/02/12, 10/02/12 R1, 10/02/12, 10/02/12 R1, 10/02/12, 10/02/12 R1, 10/02/12, 10/ $4/16/13, 11/15/13 \,R1, 04/14/14 \,R1, 10/07/14, 4/7/15, 10/6/15 \,R2, 04/05/16, 10/04/16 \,R1, 04/04/17, 10/3/17 \,R1, 4/3/18, 10/2/18, 4/2/19, 10/1/19, 12/10/20, 4/6/21, 10/5/$ 4/5/22, 4/4/23, 1/23/2024



# NEPCOAT Qualified Products List C

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

The state of the s		TIE VI and Too / O BITTEE	TIE VI una 100 / 0 Bille Eilis III VS Steel for Briages					
NTPEP			Slip	Manuf	r Coating	VOC	QPL	
System		2-COAT SYSTEM	Coef	DFT (min/max)		Tested	Accepted	
No.	Coats	TESTED AND ACCEPTED	Class	mil micron		g/L	Dates	
NEPCOAT I	LIST C	- ORGANIC Zinc Rich Primer / / Topcoat						
SSC(18)-03	*	SHERWIN WILLIAMS COMPANY					from	
	Primer	Zinc Clad® 4100 Organic Zinc Rich Epoxy Primer	$\mathbf{B}^{1}$	3-5	75-125	318	04/02/19	
	Interm						until mtg.	
Topcoat Sher-Loxane 800 Polysiloxane		Sher-Loxane 800 Polysiloxane		4-6	100-150	122	spring 2026	
1	Footnote	5 mils max DFT, 72 hours min cure, 5% thinner						
SSC(19)-05	*	SHERWIN WILLIAMS COMPANY					from	
	Primer	Zinc Clad® 4100 Organic Zinc Rich Epoxy Primer	$\mathbf{B}^{1}$	3-5	75-125	329	04/06/21	
	Interm						until mtg.	
	Topcoat	Envirolastic 940 LV Polyaspartic		6-9	150-225	217	spring 2025	
1	Footnote	5 mils max DFT, 72 hours min cure, 5% thinner						

<sup>1</sup> Footnote Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections. NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT

- 2 NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org.
- 3 Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria.
- 4 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting.
- 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.
- Recommended DFT values are listed by manufacturer (see Product Data Sheets.)
- 8 Any change in coating formulation from that tested will result in removal of the system from the QPL.
- The full QPL term is seven years starting from the date of acceptance until the next biannual NEPCOAT meeting.
- Acceptance is CONDITIONAL pending submission within four years of successful 2-year field history. A startup list of five bridges painted with the paint system must be submitted within two years. See Acceptance Criteria. Note that R-31-09 Section 12.1, Requalification Testing, has been discontinued.
- VOC value adjusted for exempt solvents es

Mtg/Date: 6/5/96, 9/4/96, 1/8/97, 7/22/97, 5/20/98, 3/3/99, 9/22/99, 3/30/00, 11/8/00, 3/28/01, 5/14/01, 11/20/01, 11/29/01, 4/24/02, 2/24/03, 4/17/03, 3/16/04, 2/15/05, 4/19/05 R1, 11/17/05 R1, 10/5/06 R1, 06/21/07, 10/16/08, 4/7/09 R1, 10/7/09 R1, 11/09/10, 01/25/11, 4/5/11 R2, 12/14/11, 4/3/12, 4/3/12 R1, 10/02/12, 10/02/12 R1, 4/16/13, 11/15/13 R1, 04/14/14 R1, 10/07/14, 4/7/15, 10/6/15 R2, 04/05/16, 10/04/16 R1, 04/04/17, 10/3/17 R1, 4/3/18, 10/2/18, 4/2/19, 10/1/19, 12/10/20, 4/6/21, 10/5/21 4/5/22, 4/4/23, 1/23/2024



## **NEPCOAT Qualified Products List D**

for Protective Coatings for

NEW and 100% BARE EXISTING Steel for Bridges

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

NEPCOAT LIST **D** - INORGANIC Zinc Rich Primer / ----- / Topcoat

<sup>1</sup> Footnote Information from the Slip-Coefficient and Creep Resistance Test Certificate is given for use w/ primed bolted connections. NOTE 1 NEPCOAT- NORTHEAST PROTECTIVE COATINGS COMMITTEE of CT, DE, ME, MA, NH, NJ, NY, PA, RI, VT

- 2 NTPEP (Nat'l Transport'n Product Evaluat'n Program). See Structural Steel Coating test data at http://data.ntpep.org.
- 3 Accelerated lab and field testing of coating systems is performed according to AASHTO NTPEP R-31 criteria.
- 4 Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting.
- 5 SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria.
- WOC 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.
- Recommended DFT values are listed by manufacturer (see Product Data Sheets.)
- 8 Any change in coating formulation from that tested will result in removal of the system from the QPL.
- 9 The full QPL term is <u>seven</u> years starting from the date of acceptance until the next biannual NEPCOAT meeting.
- \* Acceptance is CONDITIONAL pending submission within <u>four</u> years of successful 2-year field history. A startup list of five bridges painted with the paint system must be submitted within two years. See Acceptance Criteria. Note that R-31-09 Section 12.1, Requalification Testing, has been discontinued.
  - VOC value adjusted for exempt solvents

es

 $\begin{aligned} &\text{Mtg/Date: } 6/5/96, \, 9/4/96, \, 1/8/97, \, 7/22/97, \, 5/20/98, \, 3/3/99, \, 9/22/99, \, 3/30/00, \, 11/8/00, \, 3/28/01, \, 5/14/01, \, 11/20/01, \, 11/29/01, \, 4/24/02, \, 2/24/03, \, 4/17/03, \, 3/16/04, \, 2/15/05, \\ &4/19/05 \, \text{R1}, \, 11/17/05 \, \text{R1}, \, 10/5/06 \, \text{R1}, \, 06/21/07, \, 10/16/08, \, 4/7/09 \, \text{R1}, \, 10/7/09 \, \text{R1}, \, 11/09/10, \, 01/25/11, \, 4/5/11 \, \text{R2}, \, 12/14/11, \, 4/3/12, \, 4/3/12 \, \text{R1}, \, 10/02/12, \, 10/02/12 \, \text{R1}, \\ &4/16/13, \, 11/15/13 \, \text{R1}, \, 04/14/14 \, \text{R1}, \, 10/07/14, \, 4/7/15, \, 10/6/15 \, \text{R2}, \, 04/05/16, \, 10/04/16 \, \text{R1}, \, 04/04/17, \, 10/3/17 \, \text{R1}, \, 4/3/18, \, 10/2/18, \, 4/2/19, \, 10/1/19, \, 12/10/20, \, 4/6/21, \, 10/5/21 \, 4/5/22, \, 4/4/23, \, 1/23/2024 \end{aligned}$ 



## NEPCOAT Acceptance Criteria List A, B, C, D

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

AASHTO R31-Testing Standard & NEPCOAT Acceptance Criteria (3/16/04, 2/15/05, 10/16/08, 4/7/09, 10/12/11, 4/4/23)

## \* \* \* PERFORM ALL REQUIRED TESTS FOR EACH COATING SYSTEM. \* \* \*

TEST NO. 1 - SLIP COEFFICIENT - Perform Slip Co test on the same primer batch used for the other tests.

- The Slip Co test results may be applied to more than one system <u>provided</u> all Primer samples come from the same container.

Primer (min.)

IOZ Acceptance criteria: Required to have Class B Slip coefficient min. 0.5

OZ Acceptance criteria: None. Report results only. Class B Slip Co. recommended but not required.

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

Delamination Acceptance criteria: no delamination allowed

Rust / Blistering Acceptance criteria (max.):

//-----// RUST CRITERIA -----// -- BLISTER CRITERIA--<u>@ Hrs</u> <u>max creep ave creep % length in scribe</u> Primer System @ Hrs Convers'n# not req'd not req'd IOZ P-I-T 5000 4000 4 mm 2 mm 8 not req'd not req'd OZP-I-T 5000 8 mm 4 mm 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-max creep ave creep % length in scribe **Primer System** @ Hrs @ Hrs Convers'n # not req'd not req'd P-I-T 4032 IOZ 5040 4 mm 2 mm 9 not req'd not req'd 8 OZP-I-T 5040 8 mm 4 mm 4032

GLOSS value Acceptance criteria: Report results only GLOSS % Retent'n Acceptance criteria: Report results only COLOR Change,  $\Delta e$  Acceptance criteria: Report results only

## TEST NO. 4 - ABRASION RESISTANCE (ASTM D4060) - NOT REQUIRED

Weight Loss Acceptance criteria: Test discontinued
Wear Index Acceptance criteria: Test discontinued

### **TEST NO. 5 - ADHESION (ASTM D4541)**

Pull-Off Strength Acceptance criteria (min.) for both primer and PIT panels:

IOZ 6.9 MPa (1,000 psi) OZ 6.9 MPa (1,000 psi)

#### **TEST NO. 6 - FREEZE THAW STABILITY**

Pull-Off Strength Acceptance criteria: achieve min. Test 5 req'd PIT adhesion results and fall within 60% of Test 5 values

(continued)

 $\begin{aligned} &\text{Mtg/Date: } 6/5/96, \, 9/4/96, \, 1/8/97, \, 7/22/97, \, 5/20/98, \, 3/3/99, \, 9/22/99, \, 3/30/00, \, 11/8/00, \, 3/28/01, \, 5/14/01, \, 11/20/01, \, 11/29/01, \, 4/24/02, \, 2/24/03, \, 4/17/03, \, 3/16/04, \, 2/15/05, \\ &4/19/05 \, \text{R1}, \, 11/17/05 \, \text{R1}, \, 10/5/06 \, \text{R1}, \, 06/21/07, \, 10/16/08, \, 4/7/09 \, \text{R1}, \, 10/7/09 \, \text{R1}, \, 11/09/10, \, 01/25/11, \, 4/5/11 \, \text{R2}, \, 12/14/11, \, 4/3/12, \, 4/3/12 \, \text{R1}, \, 10/02/12, \, 10/02/12 \, \text{R1}, \\ &4/16/13, \, 11/15/13 \, \text{R1}, \, 04/14/14 \, \text{R1}, \, 10/07/14, \, 4/7/15, \, 10/6/15 \, \text{R2}, \, 04/05/16, \, 10/04/16 \, \text{R1}, \, 04/04/17, \, 10/3/17 \, \text{R1}, \, 4/3/18, \, 10/2/18, \, 4/2/19, \, 10/1/19, \, 12/10/20, \, 4/6/21, \, 10/5/21 \, 4/5/22, \, 4/4/23, \, 1/23/2024 \end{aligned}$ 



# NEPCOAT Acceptance Criteria List A, B, C, D

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

AASHTO R31-09 Testing Standard & NEPCOAT Acceptance Criteria (3/16/04, 2/15/05, 10/16/08, 4/7/09, 10/12/11)

### **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 outdoor site: - NOT REQUIRED

Acceptance criteria: Test discontinued

## ITEM NO. 9 - FIELD HISTORY (TWO YEAR)

Acceptance criteria: (All systems after SSC 06-05) The coating manufacturer shall submit two notifications;

- (1) a startup list within two years of product acceptance identifying five bridges (in a cold/wet climatic region) which have been coated with a minimum of 400 liters (100 gallons) of the coating system (i.e. total volume of primer, intermediate and topcoat); and
- (2) the same list of bridges within four years of product acceptance after the system has two years (min.) of successful field performance. "Successful performance" is simply defined as whether the Owner is satisfied with its application and performance to date, and whether the Owner would recommend the use of the coating again.

## PRODUCT VERIFICATION TESTING

AASHTO R-31-09 Appendix X1 recommends that the Owner perform product verification testing for determining if the coatings supplied to a project are the same quality as the manufacturer's materials originally tested and certified for acceptance.

The R-31-09 Test 7- Coating Identification Tests are described in Sect. 9.7 and Appendix X1, and the lab test results are given in NTPEP DataMine (<a href="http://data.ntpep.org">http://data.ntpep.org</a>) along with the manufacturer's listed values.

When the Owner performs verification testing, the following tolerances apply:

<b>Verification Test</b>	R-31-09 Section	R-31-09 App X1	<b>ASTM Test</b>	<b>DataMine Test 7</b>	<b>Tolerance *</b>
Total solids (% by mass)	9.7.9.1	X1.1.1.6	D 2369	Line 2	± 5 %
Pigment (% by mass)	9.7.9.5	X1.1.1.8	D 2371	" 3	± 5 %
Mass per volume (g/L)	9.7.9.8	X1.1.1.5	D 1475	" 6	± 2 %
Viscosity (Stormer)	9.7.9.9	X1.1.1.4	D 562	" 7	±8 %

<sup>\*</sup> The tolerance is applied to the DATAMINE "test result" value (not the manufacturer's "listed value").

These tolerances apply to the primer and intermediate coats each in their mixed condition (not Part A, Part B components). For topcoats, if the color is different from the original color in NTPEP testing, then these tolerances apply to the Owner's verification test values the first time a particular color is used.

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Note 1. Test Criteria: Two of three panels must pass for each test to pass. (e.g. Tests 2, 3, 5, 6)

Note 2. Materials: NEPCOAT does not accept waterborne coatings for the QPL for use in the Northeast States.

Note 3. Field History: If available, include an existing bridge(s) with field-applied coatings.