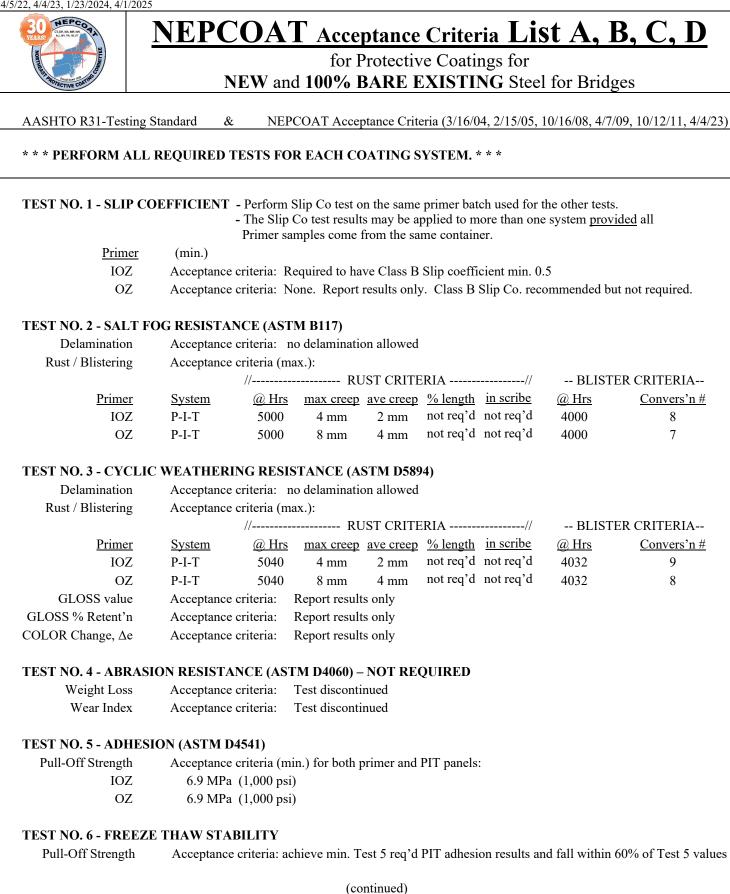
30 HEPCOR		NEPCOAT Qualified Products List A								
		for Protective Coatings for								
ST PROTECTI	E COATING	NEW and 100% BARE	EXIST	ING S	teel for	Bridges				
NTPEP			Slip	Manuf	'r Coating	VOC	QPL			
System		3-COAT SYSTEM	Coef	DFT (1	nin/max)	Tested	Accepted			
No.	Coats	TESTED AND ACCEPTED	Class	mil	micron	g/L	Dates			
NEPCOAT	NEPCOAT LIST A - INORGANIC Zinc Rich Primer / Epoxy or Urethane Intermediate / Aliphatic Urethane Finish									
SSC(19)-03	*	CARBOLINE COMPANY					from			
550(1)) 05	Primer	Carbozinc [®] 11 HS Inorganic Zinc Primer	\mathbf{B}^{1}	2-6	50-150	289	12/10/20			
	Interm	Carboguard [®] 893 Epoxy Intermediate		3-6	75-150	225	until mtg.			
		Carbothane [®] 133 LV Aliphatic Polyurethane		3-5	75-125	252	fall 2025			
	-	6 mils max DFT, 18 hrs min cure, 12% max thinner								
¹ Footnote	Informati	on from the Slip-Coefficient and Creep Resistance Tes	t Certifica	te is give	en for use w	/ primed b	olted connections.			
NOTE 1		AT- NORTHEAST PROTECTIVE COATINGS COM		-		-				
2		Nat'l Transport'n Product Evaluat'n Program). See St								
3		ted lab and field testing of coating systems is performed		0						
4	•	are accepted for use on NEW and 100% BARE EXIST		0		•	0			
5		xx systems comply with AASHTO R-31 Evaluation Pr								
6		ues are lab test results using unthinned samples. NEPC quirements for VOC limits may differ.	UAI max	voc in	mit is 420 g	/L (3.3 lb/g	gai). Individual			
7		ended DFT values are listed by manufacturer (see Prod	uct Data S	Sheets)						
8		ge in coating formulation from that tested will result in		,	stem from t	he OPL.				
9	-	QPL term is <u>seven</u> years starting from the date of accep		-			meeting.			
*		ce is CONDITIONAL pending submission within <u>four</u>					-			
	-	dges painted with the paint system must be submitted v	-				-			
	Note that	R-31-09 Section 12.1, Requalification Testing, has be		-	-					
es	VOC val	ue adjusted for exempt solvents								

YEARS! CLDE.N		NEPCOAT Qualif				is Ll	SI B			
NORTHERE		for Protective Coatings for								
NTPEP	VE COATTIN	NEW and 100% BARE F			r Coating	Bridges VOC	QPL			
			Slip		U		-			
System		3-COAT SYSTEM	Coef		nin/max)	Tested	Accepted			
No.	Coats	TESTED AND ACCEPTED	Class	mil	micron	g/L	Dates			
NEPCOAT	LIST B	- ORGANIC Zinc Rich Primer / Epoxy or Urethane Int	ermediate	e / Alipha	atic Urethar	ne Finish				
SSC(15)-07		SHERWIN WILLIAMS COMPANY					from			
	Primer	Zinc Clad [®] 4100 Organic Zinc Rich Epoxy Primer	\mathbf{B}^{1}	3-5	75-125	319	10/3/17			
	Interm	Macropoxy [®] 646 Fast Cure Epoxy		3-10	75-250	265	until mtg.			
	Topcoat	Hi-Solids Polyurethane 250		3-4	75-100	234 es	fall 2025			
	-	5 mils max DFT, 72 hours min cure, 5% max thinner					-			
SSC(18)-08	*	WASSER COATINGS					from			
SSC(10)-05	Primer	MC-Zinc 100	\mathbf{B}^{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			
	-	5.5 mils max DFT, 72 hrs min cure, 10% max thinner								
SSC(18)-09	*	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 [™] 218 HS Acrylic Polyurethane		3-6	75-150	276	fall 2026			
	¹ Footnote	5 mils max DFT, 72 hours min cure, 5% max thinner								
SSC(19)-02	*	CARBOLINE COMPANY					from			
	Primer	Carbozinc [®] 859 Organic Zinc Rich Epoxy Primer	B^{1}	3-10	75-250	342	12/10/20			
	Interm	Carboguard [®] 893 Epoxy Intermediate		3-6	75-150	218	until mtg.			
	Topcoat	Carbothane [®] 133 LV Aliphatic Polyurethane		3-5	76-127	254	fall 2025			
	-	6 mils max DFT, 6 days min cure, 10% vol max thin								
(continues)	(List B continues)								
	,	on from the Slip-Coefficient and Creep Resistance Test	Certifica	te is give	en for use w	/ primed bo	olted connecti-			
NOTE 1		AT- NORTHEAST PROTECTIVE COATINGS COMM								
2		Nat'l Transport'n Product Evaluat'n Program). See Stru								
3		ed lab and field testing of coating systems is performed		-						
4	•	are accepted for use on NEW and 100% BARE EXISTI		U		•	U			
5		xx systems comply with AASHTO R-31 Evaluation Pra								
6		ues are lab test results using unthinned samples. NEPC	UAT max	voc lii	mit is 420 g	g/L (3.5 lb/g	gal). Individu			
7		quirements for VOC limits may differ.	nat D-4- 6	thaat-)						
7 8		ended DFT values are listed by manufacturer (see Produ age in coating formulation from that tested will result in		,	stom from 4	he ODI				
8 9		QPL term is <u>seven</u> years starting from the date of accept					meeting			
> *		ce is CONDITIONAL pending submission within four					-			
		dges painted with the paint system must be submitted w								
		R-31-09 Section 12.1, Requalification Testing, has bee								
			n uiscom	mucu.						

BOONEPCOT		NEPCOAT Qualified Products List B								
NORTHE		for Protective Coatings for								
ROTECTIVE CONTING		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 B	- ORGANIC Zinc Rich Primer / Epoxy or Urethane In	termediate	e / Alipha	atic Urethaı	ne Finish				
SSC(22) 04				÷			£			
SSC(22)-04		PPG INDUSTRIES	B^{1}	2.7	50 177	0.57	from			
	Primer	SIGMAZINC™ 70 DOT	Β.	2-7	50-177	257 es	10/03/23			
	Interm	PPG DTM EPOXY 202 DOT		4-8	100-200	234 es	until mtg.			
	-	PITTHANE ULTRA DOT 95-812 SERIES		2-3	50-75	250 es	fall 2027			
	¹ Footnote	7 mils max DFT, 24 hrs. min cure, 10% vol max thin								
SSC(22)-01	*	PPG INDUSTRIES					from			
550(22) 01	Primer	SIGMAZINC™ 75 DOT	Failed ¹	2-7	50-177	277 es	10/03/23			
	Interm	AMERLOCK 600 DOT	To	3-10	125-250	232 es	until mtg.			
		PITTHANE ULTRA DOT 95-812 SERIES	Meet B	2-3	50-75	232 es 242 es	fall 2027			
	-	7 mils max DFT, 48 hrs. min cure, 10% vol max thin	Meet D	2-3	50-75	242 05	1a11 2027			
	roomote	Note: Not suitable for use in slip-critical connections.								
		rote. Por suitable for use in sup entited connections.								
¹ Footnote	Informati	on from the Slip-Coefficient and Creep Resistance Tes	t Certifica	te is give	en for use w	/ primed b	olted connections.			
NOTE 1	NEPCOA	AT- NORTHEAST PROTECTIVE COATINGS COMM	MITTEE o	f CT, DI	E, ME, MA	, NH, NJ, 1	NY, PA, RI, VT			
2		Nat'l Transport'n Product Evaluat'n Program). See Str								
3	Accelerat	ted lab and field testing of coating systems is performed	d according	g to AAS	SHTO NTP	EP R-31 c	riteria.			
4	Systems a	are accepted for use on NEW and 100% BARE EXIST.	ING steel	for bridg	ges cleaned	by abrasiv	e blasting.			
5	SSC(yr)-	xx systems comply with AASHTO R-31 Evaluation Pra	actice & N	EPCOA	T Acceptar	nce Criteria	ι.			
6	VOC value	ues are lab test results using unthinned samples. NEPC	COAT max	VOC li	mit is 420 g	g/L (3.5 lb/	gal). Individual			
	state re	quirements for VOC limits may differ.								
7		ended DFT values are listed by manufacturer (see Prod								
8		ge in coating formulation from that tested will result in								
9		QPL term is seven years starting from the date of accep								
*	-	ce is CONDITIONAL pending submission within four	-		-	-	-			
		dges painted with the paint system must be submitted v			See Accepta	nce Criteri	a.			
		R-31-09 Section 12.1, Requalification Testing, has been	en disconti	nued.						
es	VOC value	ue adjusted for exempt solvents								

		NEPCOAT Quali	fied	Pro	duc	ts Li	ist C			
		for Protective Coatings for								
		NEW and 100% BARE EXISTING Steel for Bridges								
NTPEP		•	Slip		'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		- ORGANIC Zinc Rich Primer / / Topcoat								
NEPCOAT		- 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.			
1	Topcoat	Sher-Loxane 800 Polysiloxane		4-6	100-150	122	spring 2026			
l	¹ Footnote	5 mils max DFT, 72 hours min cure, 5% thinner								
1										
¹ Footnote	Informati	on from the Slip-Coefficient and Creep Resistance Te	st Certifics	te is give	en for use w	/ nrimed k	olted connections			
NOTE 1		AT- NORTHEAST PROTECTIVE COATINGS COM		-		-				
2		Nat'l Transport'n Product Evaluat'n Program). See St								
3		ted lab and field testing of coating systems is performe			-	-				
4		are accepted for use on NEW and 100% BARE EXIST								
5	•	xx systems comply with AASHTO R-31 Evaluation Pr		-	-	•	-			
6		ues are lab test results using unthinned samples. NEPO								
		quirements for VOC limits may differ.			C					
7	Recomm	ended DFT values are listed by manufacturer (see Proc	luct Data S	Sheets.)						
8		nge in coating formulation from that tested will result in		,	stem from t	he QPL.				
9	The full (QPL term is seven years starting from the date of accept	otance unti	l the nex	t biannual N	VEPCOAT	meeting.			
*										
4-	Acceptan	ce is CONDITIONAL pending submission within fou					A startup list of			
- <u>1</u> -	Acceptan five bri	dges painted with the paint system must be submitted	within two	years. S			A startup list of			
	Acceptan five bri Note that		within two	years. S			A startup list of			

4/5/22, 4/4/25,	PCOTA	NEPCOAT Qual	ified	Produ	cts Li	st D				
Normality of the second s		for Protective Coatings for NEW and 100% BARE EXISTING Steel for Bridges								
NOTECT	IVE COATT	NEW and 100% BAR			<u> </u>					
NTPEP			Slip	Manuf'r Coatir	0	QPL				
System		2-COAT SYSTEM	Coef	DFT (min/max) Tested	Accepted				
No.	Coats	TESTED AND ACCEPTED	Class	mil micro	n g/L	Dates				
NEPCOAT	\mathbf{D}	- INORGANIC Zinc Rich Primer / / Topcoat								
NEPCOAT		- INORGANIC Zinc Rich Primer / / Topcoat								
		on from the Slip-Coefficient and Creep Resistance		-	-					
NOTE 1		T- NORTHEAST PROTECTIVE COATINGS CO								
2		Nat'l Transport'n Product Evaluat'n Program). See								
3		ed lab and field testing of coating systems is perform		-						
4		are accepted for use on NEW and 100% BARE EXIS								
5		xx systems comply with AASHTO R-31 Evaluation		-						
6		tes are lab test results using unthinned samples. NE juirements for VOC limits may differ.	FCUAT may	voc limit is 42	U g/L (3.3 lb/	gal). Individual				
7		ended DFT values are listed by manufacturer (see Pr	oduct Data S	Sheets)						
8		ge in coating formulation from that tested will result		· · · · · · · · · · · · · · · · · · ·	m the OPI					
8 9		PL term is <u>seven</u> years starting from the date of acc				meeting				
*		ce is CONDITIONAL pending submission within <u>fr</u>								
		lges painted with the paint system must be submitte								
		R-31-09 Section 12.1, Requalification Testing, has		•	•					
es		e adjusted for exempt solvents								
		- *								





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

VOCAcceptance criteria:Max. 420 g/L (3.5 lb/gal). Individual state requirements may differ.Coating propertiesAcceptance criteria:Report onlyCoating thicknessAcceptance 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 (<u>http://data.ntpep.org</u>) along with the manufacturer's listed values.

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

Verification Test	<u>R-31-09 Section</u>	<u>R-31-09 App X1</u>	ASTM Test	DataMine Test 7	Tolerance *
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 %

* 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.

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.