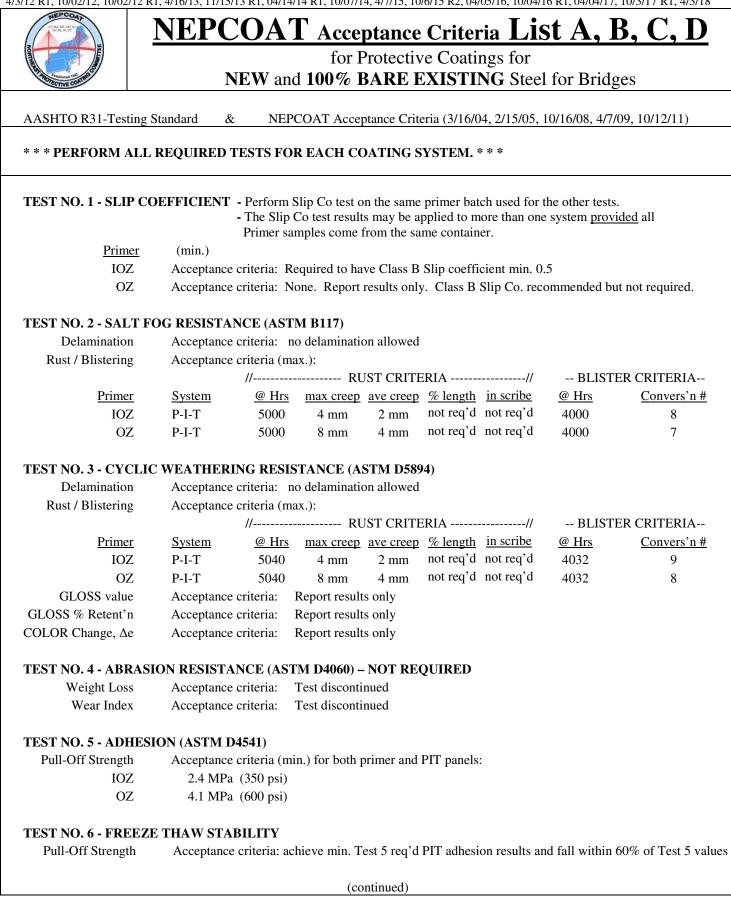
		NEPCOAT Quali	fied	Pro	duc	ts Li	ist A	
		for Protective Coatings for						
ROTECTIVE	COATINE	NEW and 100% BARE I	NEW and 100% BARE EXISTING Steel for Bridges Slip Manuf'r Coating VOC QPL					
NTPEP			Slip		-	VOC	QPL	
System		3-COAT SYSTEM	Coef		min/max)	Tested	Accepted	
No.	Coats	TESTED AND ACCEPTED	Class	mil	micron	g/L	Dates	
NEPCOAT LIST ${ m A}$ - INORGANIC Zinc Rich Primer / Epoxy or Urethane Intermediate / Aliphatic Urethane Finish								
SSC(12)-03		CARBOLINE COMPANY					from	
	Primer	Carbozinc [®] 11 HS Inorganic Zinc Primer	\mathbf{B}^{1}	2-6	50-150	267	04/14/14	
	Interm	Carboguard [®] 893 Epoxy Intermediate		3-6	75-150	198	until mtg.	
	Topcoat	Carbothane 133 LV Aliphatic Polyurethane		3-5	75-125	245	spring 2021	
	¹ Footnote	6 mils max DFT, 19 hrs min cure, 12% max thinner					Ĩ	
	Informati	on from the Slip-Coefficient and Creep Resistance Test	Cartifica	ta in airr		/ naimad k	altad compactions	
NOTE 1		AT- NORTHEAST PROTECTIVE COATINGS COM		-		-		
2		Nat'l Transport'n Product Evaluat'n Program). See Str						
3		red lab and field testing of coating systems is performed			-	-		
4		are accepted for use on NEW and 100% BARE EXIST		C				
5	-	xx systems comply with AASHTO R-31 Evaluation Pra		-		-	-	
6	-	ues are lab test results using unthinned samples. NEPC			-			
	state ree	quirements for VOC limits may differ.					Sar), marriduur	
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 accept					-	
*	-	ce is CONDITIONAL pending submission within four	-		-	-	-	
		dges painted with the paint system must be submitted w		-	ee Accepta	nce Criter	ia.	
		R-31-09 Section 12.1, Requalification Testing, has been	n discont	inued.				
es	VOC valu	ue adjusted for exempt solvents						

		NEPCOAT Quali	fied	Pro	oduc	ts Li	st B			
		for Protective Coatings for								
		NEW and 100% BARE EXISTING Steel for Bridges								
NTPEP			Slip		'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			
	R			/ . 1. 1		D ' ' 1				
NEPCOAT		- ORGANIC Zinc Rich Primer / Epoxy or Urethane In	termediate	e / Alipha	atic Urethai	he Finish				
SSC(10)-03		PPG/AMERON					from			
	Primer	Amercoat [®] 68HS Zinc Rich Epoxy Primer	\mathbf{B}^{1}	3-5	75-125	276	12/14/2011			
	Interm	Amercoat [®] 399 Fast Drying Epoxy		4-8	100-200	177	until mtg.			
	-	Amercoat [®] 450H Gloss Aliphatic Polyurethane		2-5	50-125	306	fall 2018			
1	Footnote	3 mils max DFT, 7 days min cure, 3% vol max thin								
SSC(10)-05		WASSER HIGH TECH COATINGS					from			
	Primer	MC-Zinc 100	Ø	3-5	75-125	115 es	4/03/12			
	Interm	MC-Miomastic 100	no	3-5	75-125	173 es	until mtg.			
	Topcoat	MC-Ferrox A 100	report	2-4	50-100	144 es	spring 2019			
Ø	Footnote	No data reported.					1 0			
SSC(11)-01		SHERWIN WILLIAMS COMPANY					from			
	Primer	Zinc Clad [®] III HS Organic Zinc Rich Epoxy Primer	A^{1}	3-5	75-125	337	10/02/12			
	Interm	Steel Spec Epoxy Intermediate		3-8	75-200	293	until mtg.			
		Hi-Solids Polyurethane		3-5	75-125	288	fall 2019			
1	-	5 mils max DFT, 7 days min cure, zero thinner								
SSC(11)-02		INTERNATIONAL PAINT INC					from			
	Primer	Interzinc [®] 315B Epoxy Zinc Rich	\mathbf{B}^{1}	2-6	50-150	304	10/02/12			
	Interm	Intergard 475HS Epoxy	2	2-0 4-8	100-200	187	until mtg.			
		Interthane [®] 870 UHS		3-5	75-125	242 es	fall 2019			
1	-	4 mils max DFT, 48 hours min cure, zero thinner		55	75 125	242 03	1dii 2017			
(continues)	roomote	(List B continues)								
	Informati	on from the Slip-Coefficient and Creep Resistance Tes	t Certifica	te is give	en for use w	/ nrimed h	olted connection			
NOTE 1		T- NORTHEAST PROTECTIVE COATINGS COM		-		-				
2		Nat'l Transport'n Product Evaluat'n Program). See Sti								
3		ed lab and field testing of coating systems is performed			-	-				
4		are accepted for use on NEW and 100% BARE EXIST		-						
4 5	-	the accepted for use on NEW and 100% BARE EXIST fxx systems comply with AASHTO R-31 Evaluation Pr		-		-	-			
6	-	ues are lab test results using unthinned samples. NEPC			-					
0		quirements for VOC limits may differ.			iiiit is 420 g	у ц (3.3 10/	gar). murviuual			
7		ended DFT values are listed by manufacturer (see Prod	uct Data S	heets)						
8		ge in coating formulation from that tested will result in			stem from t	he ODI				
8 9	-			-			meeting			
9 *		QPL term is <u>seven</u> years starting from the date of accep								
-1+	-	ce is CONDITIONAL pending submission within <u>four</u>	-		-	-	-			
		dges painted with the paint system must be submitted w		•	see Accepta	ince Criteri	a.			
		R-31-09 Section 12.1, Requalification Testing, has been	en disconti	inued.						
es	VOC valu	a adjusted for exempt solvents								

		NEPCOAT Qualit				ts Li	<u>st B</u>		
		for Protective Coatings for NEW and 100% BARE EXISTING Steel for Bridges							
NTPEP			Slip		r Coating	VOC	QPL		
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 Urethau	ne Finish			
SSC(04)-03		SHERWIN WILLIAMS COMPANY					from		
SSC(11)-03	Primer	Zinc Clad [®] III HS Organic Zinc Rich Epoxy Primer	A^{1}	3-5	75-125	329	10/02/12		
	Interm	Macropoxy [®] 646 Fast Cure Epoxy		3-10	75-250	238	until mtg.		
	Topcoat	Acrolon [™] 218 HS Acrylic Polyurethane		3-6	75-150	263	fall 2019		
:	-	5 mils max DFT, 7 days min cure, zero thinner							
SSC(12)-04*		CARBOLINE COMPANY					from		
	Primer	Carbozinc [®] 859 Organic Zinc Rich Epoxy Primer	\mathbf{B}^{1}	3-10	75-250	322	04/14/14		
	Interm	Carboguard [®] 893 Epoxy Intermediate		3-6	75-150	207	until mtg.		
	Topcoat	Carbothane 133 VOC Aliphatic Polyurethane		3-5	76-127	185 es	fall 2018		
1	-	6 mils max DFT, 4 days min cure, 10% vol max thin							
SSC(15)-07		SHERWIN WILLIAMS COMPANY							
	Primer	Zinc Clad [®] 4100 Organic Zinc Rich Epoxy Primer	\mathbf{B}^{1}	3-5	75-125	319	10/03/17		
	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 2021		
	Footnote	5 mils max DFT, 72 hours min cure, 5% max thinner							
		on from the Slip-Coefficient and Creep Resistance Test		-		-			
NOTE 1 2		AT- NORTHEAST PROTECTIVE COATINGS COMM Nat'l Transport'n Product Evaluat'n Program). See Stru							
2 3		red lab and field testing of coating systems is performed			-	-			
3 4		are accepted for use on NEW and 100% BARE EXISTI		-					
4 5	-	xx systems comply with AASHTO R-31 Evaluation Pra		-		-	-		
5	-	ues are lab test results using unthinned samples. NEPC			-				
U		quirements for VOC limits may differ.			int 18 420 g	ул (<i>э.э</i> 10/8	sai). muiviuuai		
		ended DFT values are listed by manufacturer (see Produ							
7	Any char	ge in coating formulation from that tested will result in		-					
8		QPL term is seven years starting from the date of acceptance until the next biannual NEPCOAT meeting.							
8 9			nce is CONDITIONAL pending submission within <u>four</u> years of successful 2-year field history. A startup list of						
8	Acceptan	ce is CONDITIONAL pending submission within four	-		-	-	-		
8 9	Acceptan five bri	ce is CONDITIONAL pending submission within <u>four</u> dges painted with the paint system must be submitted w	ithin two	years. S	-	-	-		
8 9	Acceptan five bri	ce is CONDITIONAL pending submission within four	ithin two	years. S	-	-	-		

NEPC CT MA. ME. NO MY. PR. R. V	DAT	NEPCOAT Qualified Products List C							
Norma		for Protective Coatings for							
A A DIECTIVE COMME		NEW and 100% BARE EXISTING Steel for Bridges							
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									
NEPCOAT		- ORGANIC Zinc Rich Primer / / Topcoat							
¹ Footnote	Informatio	on from the Slip-Coefficient and Creep Resistance Te	est Certifica	te is given for use	w/ primed bo	olted connections.			
NOTE 1		T- NORTHEAST PROTECTIVE COATINGS COM							
2		Nat'l Transport'n Product Evaluat'n Program). See S		e	-	110			
3		ed lab and field testing of coating systems is perform		•					
4	•	re accepted for use on NEW and 100% BARE EXIS		•	•	•			
5	-	x systems comply with AASHTO R-31 Evaluation F		-					
6		es are lab test results using unthinned samples. NEP uirements for VOC limits may differ.	COAT may	VOC limit is 420	g/L (3.5 10/g	gal). Individual			
7		nded DFT values are listed by manufacturer (see Pro	duct Data	Sheets)					
8		ge in coating formulation from that tested will result			the OPI				
9		PL term is <u>seven</u> years starting from the date of acce		-		meeting			
*		the is CONDITIONAL pending submission within for	-			-			
	-	lges painted with the paint system must be submitted	-	-	-	-			
		R-31-09 Section 12.1, Requalification Testing, has b		•	entern				
es		e adjusted for exempt solvents							
1		- •							

NEPC Ct MA USE IN Profession	DAT	NEPCOAT Qual	ified	Prod	luc	ts Li	st D		
		for Protective Coatings for							
		NEW and 100% BARE EXISTING Steel for Bridges							
NTPEP			Slip	Manuf'r Co	oating	VOC	QPL		
System		2-COAT SYSTEM	Coef	DFT (min/	'max)	Tested	Accepted		
No.	Coats	TESTED AND ACCEPTED	Class	mil m	icron	g/L	Dates		
NEPCOAT	LIST D	- INORGANIC Zinc Rich Primer / / Topcoat							
		[Blank]							
	·								
1									
		on from the Slip-Coefficient and Creep Resistance T		•		-			
NOTE 1 2		T- NORTHEAST PROTECTIVE COATINGS CON Nat'l Transport'n Product Evaluat'n Program). See S							
3		ed lab and field testing of coating systems is perform		-		-			
4		re accepted for use on NEW and 100% BARE EXIS		-					
5		x systems comply with AASHTO R-31 Evaluation							
6	-	es are lab test results using unthinned samples. NEI			-				
	state req	uirements for VOC limits may differ.							
7		nded DFT values are listed by manufacturer (see Pre-							
8		ge in coating formulation from that tested will result		-					
9 *		PL term is <u>seven</u> years starting from the date of acc	-				-		
*	-	ce is CONDITIONAL pending submission within <u>fo</u>	-			-	-		
		lges painted with the paint system must be submitted P 31 00 Section 12 1 Pagualification Testing has be			Accepta	ince Criteria	1.		
es		R-31-09 Section 12.1, Requalification Testing, has be adjusted for exempt solvents	been discont	mued.					
es	v OC valu	augustua for exempt sorvents							





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	R-31-09 Section	<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.