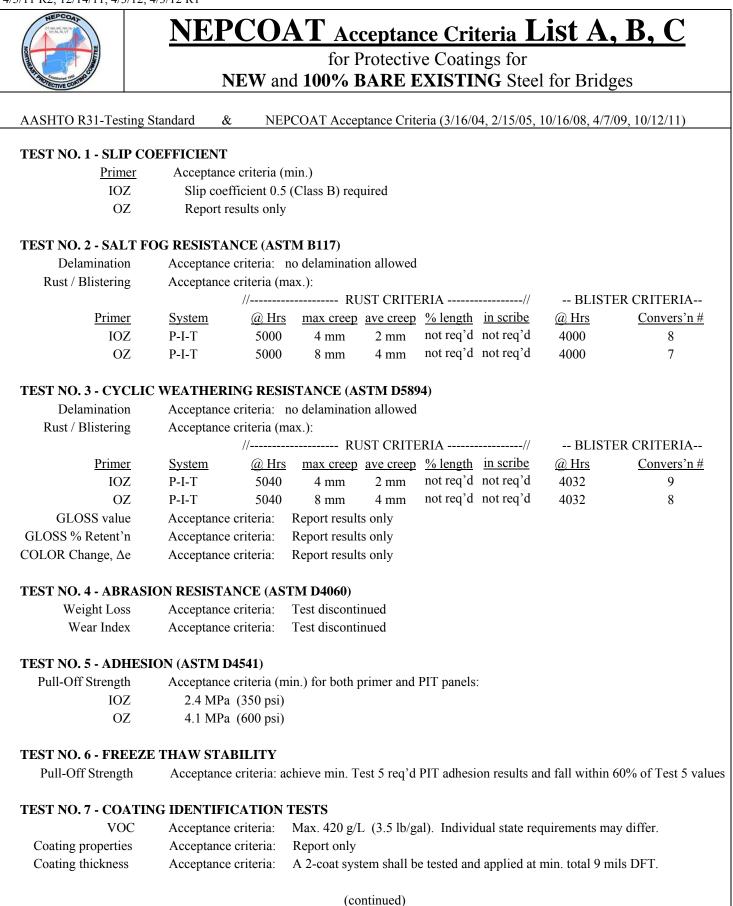
		NEPCOAT Qualified Products List A							
		for Protective Coatings for							
AROTECTIVE	COATTHOUS	NEW and 100% BARE EXISTING Steel for Bridges							
NTPEP			Slip	Manuf	'r Coating	VOC	QPL		
System		3-COAT SYSTEM	Coef	DFT (1	min/max)	Tested	Accepted		
No.	Coats	TESTED AND ACCEPTED	Class	mil	micron	g/L	Dates		
NEPCOAT	LIST \mathbf{A}	- INORGANIC Zinc Rich Primer / Epoxy or Urethand	e Intermed	liate / Ali	phatic Uret	hane Finish	1		
					-				
SSC(06)-05	D :	CARBOLINE COMPANY	D 1	•	50 1 50		from		
	Primer	Carbozine [®] 11 HS Inorganic Zinc Primer	\mathbf{B}^{1}	2-6	50-150	323	06/21/07		
	Interm	Carboguard [®] 893 Epoxy Intermediate		3-6	75-150	200	until mtg.		
	-	Carbothane 133 LH Aliphatic Polyurethane		3-6	75-150	295	spring 2014		
	Footnote	6 mils max DFT, 18 hrs min cure, 15 oz/gal max thin							
SSC(09)-01*		SHERWIN WILLIAMS COMPANY					from		
	Primer	Zinc Clad [®] DOT Inorganic Zinc Rich Primer	\mathbf{B}^{1}	2-4	50-100	336	11/09/2010		
	Interm	Steel Spec Epoxy Intermediate		3-6	75-150	301	until mtg.		
		High Solids Polyurethane		3-5	75-125	281	fall 2014		
:	-	4 mils max DFT, 48 hours min cure, 4% max thinner	ſ						
							2		
SSC(10)-02*		INTERNATIONAL PAINT INC	D 1		(A. 7.5	224	from		
	Primer	Interzinc [®] 22 HS Inorganic Zinc Rich	\mathbf{B}^{1}	2.5-3	62-75	324	12/14/2011		
	Interm	Intergard 475HS Epoxy		4-8	100-200	200	until mtg.		
	Topcoat	Interthane [®] 870 UHS		3-5	75-125	232 es	fall 2015		
¹ Footnote	Informati	on from the Slip-Coefficient and Creep Resistance Tes	st Certifica	ate is give	en for use w	/ primed bo	olted connections.		
NOTE 1	NEPCOA	AT- NORTHEAST PROTECTIVE COATINGS COM	MITTEE o	of CT, DI	E, ME, MA	, NH, NJ, N	IY, PA, RI, VT		
2	NTPEP (Nat'l Transport'n Product Evaluat'n Program). See St	ructural S	teel Coati	ing test data	a at http://da	ata.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	(2)	xx systems comply with AASHTO R-31 Evaluation Pr			-				
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 NTPEP DataMine Test 7). Also check Product Data Sheets.								
8		ge in coating formulation from that tested will result in							
9	•	QPL term is seven years starting from the date of accept		•		-	meeting.		
*		ce is CONDITIONAL pending submission within four					-		
	-	dges painted with the paint system must be submitted	-		-	-	-		
		R-31 Section 12.1, Requalification Testing, has been of			1				
es		ue adjusted for exempt solvents							

CT MA ME	OAT T	NEPCOAT Quali	fied	Pro	oduc	ts L	ist B	
NORMELIST		for Protectiv NEW and 100% BARE	ve Coa	tings f	or			
NTPEP	COM	NEW and 100% DARE	Slip		r Coating	VOC	QPL	
System		3-COAT SYSTEM	Coef		min/max)	Tested	Accepted	
No.	Coats	TESTED AND ACCEPTED	Class	mil	micron	g/L	Dates	
	D							
NEPCOAT	LIST D	- ORGANIC Zinc Rich Primer / Epoxy or Urethane In	termediat	e / Aliph	atic Urethai	ne 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.	
	Topcoat	Amercoat [®] 450H Gloss Aliphatic Polyurethane		2-5	50-125	306	fall 2015	
	¹ Footnote	3 mils max DFT, 7 days min cure, 3% vol max thin						
SSC(04)-02	2	CARBOLINE COMPANY					from 11/17/05	
SSC(10)-04	Primer	Carbozinc [®] 859 Organic Zinc Rich Epoxy Primer	\mathbf{B}^{1}	3-10	75-250	327	until mtg	
	Interm	Carboguard [®] 888 Epoxy Polyamide		3-8	75-200	320	fall 2015	
	-	Carbothane 133 LH Aliphatic Polyurethane		3-6	75-150	311	(passed requalific'n	
	¹ Footnote	6 mils max DFT, 4 days min cure, 10% vol max thin					as SSC 10-04)	
SSC(04)-03	3	SHERWIN WILLIAMS COMPANY					from	
	Primer	Zinc Clad [®] III HS Organic Zinc Rich Epoxy Primer	\mathbf{B}^{1}	3-5	75-125	330	11/17/05	
	Interm	Macropoxy [®] 646 Fast Cure Epoxy		3-10	75-250	191	until mtg.	
	Topcoat	Acrolon [™] 218 HS Acrylic Polyurethane		3-6	75-150	280	fall 2012	
	¹ Footnote	5 mils max DFT, 7 days min cure, zero thinner					(in retesting)	
SSC(06)-11	*	CARBOLINE COMPANY					from	
	Primer	Carbozinc [®] 859 Organic Zinc Rich Epoxy Primer	\mathbf{B}^{1}	3-10	75-250	327	4/7/09	
	Interm	Carboguard [®] 893 Epoxy Polyamide		3-10	75-250	200	until mtg.	
	Topcoat	Carbothane 133 LH Aliphatic Polyurethane		3-6	75-150	311	spring 2013	
		6 mils max DFT, 4 days min cure, 10% vol max thin						
(continues	/	(List B continues)						
		ion from the Slip-Coefficient and Creep Resistance Tes		-		-		
NOTE 1		AT- NORTHEAST PROTECTIVE COATINGS COMM						
2		Nat'l Transport'n Product Evaluat'n Program). See Str			-	-		
3		ted lab and field testing of coating systems is performed		-				
4		are accepted for use on NEW and 100% BARE EXIST					-	
5		xx systems comply with AASHTO R-31 Evaluation Practice Pr			-			
6		ues are lab test results using unthinned samples. NEPC	COAT max	x VOC li	mit is 420 g	g/L (3.5 l	b/gal). Individual	
		equirements for VOC limits may differ.						
7		ended DFT values are listed by manufacturer (see NTP						
8	-	nge in coating formulation from that tested will result in removal of the system from the QPL.						
9		QPL term is seven years starting from the date of accep					-	
*		nce is CONDITIONAL pending submission within four						
		idges painted with the paint system must be submitted v		•	See Accepta	nce Crit	eria.	
		t R-31 Section 12.1, Requalification Testing, has been c	liscontinu	ed.				
es	VOC val	ue adjusted for exempt solvents						

CT MA ME A	OAT AT	NEPCOAT Qua	lified	Pro	oduc	ts Li	st B		
		for Protective Coatings for NEW and 100% BARE EXISTING Steel for Bridges							
NTPEP	COM	INE W and IOU 76 DAK	E EAIST Slip		r Coating	VOC	QPL		
		3-COAT SYSTEM	Coef		min/max)	Tested	Accepted		
System No.	Coats	TESTED AND ACCEPTED	Class	mil	micron	g/L	Dates		
INO.		TESTED AND ACCEPTED	Class	11111	micron	g/L	Dates		
NEPCOAT	LIST B	- ORGANIC Zinc Rich Primer / Epoxy or Urethan	e Intermediate	/ Aliph	atic Urethai	ne Finish			
SSC(07)-02	*	INTERNATIONAL PAINT INC					from		
	Primer	Interzinc [®] 315B Epoxy Zinc Rich	Ø	2-6	50-150	291	4/7/09		
	Interm	Intergard 475HS Epoxy	(not	4-8	100-200	177	until mtg.		
	Topcoat	Interthane [®] 870 UHS	tested)	3-5	75-125	171	spring 2013		
(-	The test was not performed.	,				1 0		
SSC(08)-07	*	CARBOLINE COMPANY					from		
	Primer	Carbozinc [®] 859 PRIMER	Ø	3-10	75-250	331	10/07/09		
	Interm	Carboguard [®] 825 Epoxy Polyamide	(not	3-10	75-250	305	until mtg.		
		Carbothane 133 LH Aliphatic Polyurethane	tested)	3-6	75-150	317	fall 2013		
	-	The test was not performed.)			• • •			
SSC(10)-05	*	WASSER HIGH TECH COATINGS					from		
55 0 (10) 00	Primer	MC-Zinc 100	Δ	3-5	75-125	115 es	4/03/12		
	Interm	MC-Miomastic 100	(in	3-5	75-125	173 es	until mtg.		
		MC-Ferrox A 100	testing)	2-4	50-100	144 es	spring 2016		
	-	In Slip Coef. testing	(tosting)		20 100	11105	spring 2010		
¹ Footnote	Informati	ion from the Slip-Coefficient and Creep Resistance	Test Certifica	te is give	en for use v	v/ primed b	olted connections		
NOTE 1		AT- NORTHEAST PROTECTIVE COATINGS CO		-					
2		Nat'l Transport'n Product Evaluat'n Program). Se							
3		ted lab and field testing of coating systems is perfor			-	-			
4				-					
5	Systems are accepted for use on NEW and 100% BARE EXISTING steel for bridges cleaned by abrasive blasting. SSC(yr)-xx systems comply with AASHTO R-31 Evaluation Practice & NEPCOAT Acceptance Criteria.								
6		ues are lab test results using unthinned samples. N			-				
	state re	quirements for VOC limits may differ.			_				
7		ecommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets.							
8	-	change in coating formulation from that tested will result in removal of the system from the QPL.							
9		QPL term is seven years starting from the date of a							
*	Acceptan	nce is CONDITIONAL pending submission within	<u>four</u> years of s	uccessfu	l 2-year fie	ld history.	A startup list of		
	five bri	dges painted with the paint system must be submitt	ed within two	years. S	See Accepta	ance Criteri	a.		
	Note that	R-31 Section 12.1, Requalification Testing, has be	en discontinue	ed.					
es	VOC val	ue adjusted for exempt solvents							

THE PECAN		NEPCOAT Qualified Products List C							
		for Protective Coatings for							
SAL PROTECTIVE	CONTRO	NEW and 100% BARE		•		Bridges			
NTPEP			Slip	Manuf'r		VOC	QPL		
System		2-COAT SYSTEM	Coef	DFT (m	in/max)	Tested	Accepted		
No.	Coats	TESTED AND ACCEPTED	Class	mil	micron	g/L	Dates		
	Ω					0			
NEPCOAT	LIST C	- ORGANIC Zinc Rich Primer / / Topcoat							
		[Blank]							
¹ Footnote	Informatio	on from the Slip-Coefficient and Creep Resistance T	est Certifica	te is given	for use w	/ primed bo	olted connections.		
NOTE 1	NEPCOA	T- NORTHEAST PROTECTIVE COATINGS COM	MITTEE o	of CT, DE,	ME, MA	, NH, NJ, N	IY, PA, RI, VT		
2		Nat'l Transport'n Product Evaluat'n Program). See			-	-			
3	Accelerate	ed lab and field testing of coating systems is perform	ned accordin	g to AASH	ITO NTP	EP R-31 cr	iteria.		
4	Systems a	re accepted for use on NEW and 100% BARE EXIS	TING steel	for bridge	s cleaned	by abrasive	blasting.		
5	SSC(yr)-x	x systems comply with AASHTO R-31 Evaluation	Practice & N	VEPCOAT	Acceptar	nce Criteria			
6		es are lab test results using unthinned samples. NEI	PCOAT max	VOC lim	it is 420 g	g/L (3.5 lb/g	al). Individual		
	state req	uirements for VOC limits may differ.							
7		nded DFT values are listed by manufacturer (see N			-		et Data Sheets.		
8	-	ge in coating formulation from that tested will result		-					
9		PL term is seven years starting from the date of acc	-				-		
*	Acceptance	ce is CONDITIONAL pending submission within fo	<u>ur</u> years of s	successful	2-year fie	ld history.	A startup list of		
		lges painted with the paint system must be submitted		•	e Accepta	nce Criteria	1.		
	Note that	R-31 Section 12.1, Requalification Testing, has been	n discontinu	ed.					
es	VOC valu	e adjusted for exempt solvents							





NEPCOAT Acceptance Criteria List A, B, C

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)

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)

Acceptance criteria: (All systems after SSC 06-05) The coating manufacturer must 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 Appendix 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 Test 7- Coating Identification Tests are described in Sect. 9 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 Section	<u>R-31 App X1</u>	ASTM Test	DataMine Test 7	Tolerance *
Total solids (% by mass)	9.7.13.1	X1.1.1.1.6	D 2369	Line 2	± 5 %
Pigment (% by mass)	9.7.13.5	" 8	D 2371	" 3	± 5 %
Mass per volume (g/L)	9.7.13.8	" 5	D 1475	" 6	±2 %
Viscosity (Stormer)	9.7.13.9	" 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.