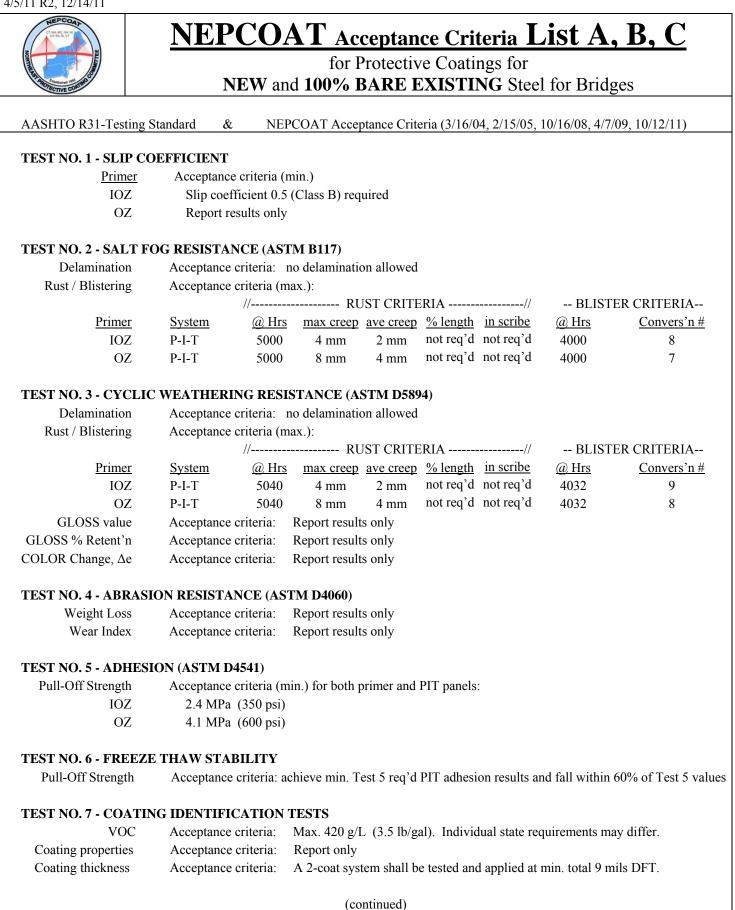
		NEPCOAT Qualified Products List A							
		for Protective Coatings for							
ARDTECTIVE	CATHOU	NEW and 100% BARE	EXIST	ING S	Steel for	Bridges	5		
NTPEP			Slip	Manuf	'r Coating	VOC	QPL		
System		3-COAT SYSTEM	Coef	DFT (1	min/max)	Tested	Accepted		
No.	Coats	TESTED AND ACCEPTED	Class	mil	micron	g/L	Dates		
NEPCOAT	LIST \mathbf{A}	- INORGANIC Zinc Rich Primer / Epoxy or Urethar	e Intermed	liate / Ali	phatic Uret	hane Finis	<u>h</u>		
SSC(06)-05		CARBOLINE COMPANY					from		
	Primer	Carbozinc [®] 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.		
	Topcoat	Carbothane 133 LH Aliphatic Polyurethane		3-6	75-150	295	spring 2012		
1		6 mils max DFT, 18 hrs min cure, 15 oz/gal max thi	n				1 0		
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		
1	-	4 mils max DFT, 48 hours min cure, 4% max thinne	er						
SSC(10)-02*		INTERNATIONAL PAINT INC					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	306	fall 2015		
¹ Footnote	Informati	on from the Slip-Coefficient and Creep Resistance Te	est Certifica	ate is give	en for use w	v/ primed b	olted connections.		
NOTE 1		AT- NORTHEAST PROTECTIVE COATINGS COM		-					
2		Nat'l Transport'n Product Evaluat'n Program). See S							
3		ted lab and field testing of coating systems is perform			-	-			
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		ues are lab test results using unthinned samples. NEP			-				
	state ree	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	Any chan	ny change in coating formulation from that tested will result in removal of the system from the QPL.							
9	•	PL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31.							
*		ce is CONDITIONAL pending submission within for				-			
	-	dges painted with the paint system must be submitted	-		-	-	-		
**		cation is per R-31, sect. 12.1, except that the manufac		•	-				
	-	fication term if the identical system is being retested a				1	-		

		NEPCOAT Qualit	fied	Pro	oduc	ts L	ist 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 (1	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 Int	termediat	e / Alipha	atic Urethai	ne Finish			
	le .						c		
SSC(10)-03*		PPG/AMERON	\mathbf{B}^{1}	25	75 125	276	from		
	Primer	Amercoat [®] 68HS Zinc Rich Epoxy Primer	В	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 2015		
	¹ Footnote	3 mils max DFT, 7 days min cure, 3% vol max thin							
SSC(04)-02		CARBOLINE COMPANY					from 11/17/05		
SSC(10)-04		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		
		6 mils max DFT, 4 days min cure, 10% vol max thin		5 0	10 100	511	as SSC 10-04)		
	roomote	o milo max D1 1, 4 days mil care, 10/0 vor max um					us 5500 10 04)		
SSC(04)-03		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	spring 2012		
		5 mils max DFT, 7 days min cure, zero thinner					(in retesting)		
SSC(06)-11*		CARBOLINE COMPANY	1	2 10	<b>75 0</b> 50		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.		
	-	Carbothane 133 LH Aliphatic Polyurethane		3-6	75-150	311	spring 2013		
	¹ Footnote	6 mils max DFT, 4 days min cure, 10% vol max thin							
(continues	,	(List B continues)							
		ion from the Slip-Coefficient and Creep Resistance Test		e		-			
NOTE 1	NEPCOA	AT- NORTHEAST PROTECTIVE COATINGS COMM	AITTEE o	of CT, DI	E, ME, MA	, NH, NJ	, 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	l accordin	ig to AAS	SHTO NTP	EP R-31	criteria.		
4	Systems	are accepted for use on NEW and 100% BARE EXIST	ING steel	for bridg	ges cleaned	by abras	ive blasting.		
5	SSC(yr)-	xx systems comply with AASHTO R-31 Evaluation Pra	actice & 1	NEPCOA	T Acceptar	nce Crite	ria.		
6	VOC val	ues are lab test results using unthinned samples. NEPC	OAT max	x VOC li	mit is 420 g	g/L (3.5 l	b/gal). Individual		
	state re	quirements for VOC limits may differ.							
7	Recomm	Recommended DFT values are listed by manufacturer (see NTPEP DataMine Test 7). Also check Product Data Sheets.							
8	Any char	Any change in coating formulation from that tested will result in removal of the system from the QPL.							
9	The QPL	QPL term is 5 years starting from the date of acceptance until the next biannual NEPCOAT meeting. See R-31.							
*	Acceptan	ce is CONDITIONAL pending submission within four	years of s	successfu	l 2-year fie	ld histor	y. A startup list of		
	five bri	dges painted with the paint system must be submitted w	vithin two	years. S	See Accepta	nce Crite	eria.		
**	Requalifi	cation is per R-31, sect. 12.1, except that the manufactu	irer has ai	n addition	nal (6th) ye	ar to con	plete the 5-year		
	-	fication term if the identical system is being retested at			· /•		-		

		<b>NEPCOAT Qualified Products List B</b>							
		for Protective Coatings for NEW and 100% BARE EXISTING Steel for Bridges							
ROTECTIVE	CONTINU	NEW and IOU% BARE				•			
NTPEP			Slip		'r Coating	VOC	QPL		
System		<b>3-COAT SYSTEM</b>	Coef	DFT (1	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(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		
Q	Footnote	The test was not performed.							
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		
Q	-	The test was not performed.							
¹ Footnote	Informati	on from the Slip-Coefficient and Creep Resistance Te	st Certifica	te is give	en for use w	v/ primed b	olted connections.		
NOTE 1		AT- NORTHEAST PROTECTIVE COATINGS COM		-		-			
2		Nat'l Transport'n Product Evaluat'n Program). See S							
3		ed lab and field testing of coating systems is performed			-	-			
4		are accepted for use on NEW and 100% BARE EXIS		-					
5	•	xx systems comply with AASHTO R-31 Evaluation P		-		•	-		
6	VOC valu	ues are lab test results using unthinned samples. NEP quirements for VOC limits may differ.			-				
7	Recomme	ended DFT values are listed by manufacturer (see NT	PEP DataM	line Test	7). Also c	heck Produ	ict Data Sheets.		
8	-	ge in coating formulation from that tested will result		-					
9	The QPL	term is 5 years starting from the date of acceptance up	ntil the next	t biannua	l NEPCOA	T meeting	g. See R-31.		
*	Acceptan	ce is CONDITIONAL pending submission within fou	r years of s	uccessfu	l 2-year fie	ld history.	A startup list of		
**	Requalifi	dges painted with the paint system must be submitted cation is per R-31, sect. 12.1, except that the manufac fication term if the identical system is being retested a	turer has an	addition	nal (6th) ye				

CT MA VE SO	The second secon	NEPCOAT Qualified Products List C for Protective Coatings for							
Land and the second second		NEW and 100% BARE EXISTING Steel for Bridges							
NTPEP			Slip	Manuf'r (VOC	QPL		
System		2-COAT SYSTEM	Coef	DFT (mi	-	Tested	Accepted		
No.	Coats	TESTED AND ACCEPTED	Class		micron	g/L	Dates		
110.	C		Cluss	iiiii		5/12	Dutes		
NEPCOAT	LIST C -	ORGANIC Zinc Rich Primer / / Topcoat							
	ſ	Blank]							
	L	Dialikj							
1									
		n from the Slip-Coefficient and Creep Resistance Te		-					
NOTE 1		I- NORTHEAST PROTECTIVE COATINGS COM							
2		at'l Transport'n Product Evaluat'n Program). See S		-		-			
3		d lab and field testing of coating systems is performed							
4	•	re accepted for use on NEW and 100% BARE EXIS		-		•	-		
5		x systems comply with AASHTO R-31 Evaluation P			-				
6		es are lab test results using unthinned samples. NEP	COAT max	x VOC limi	t is 420 g	g/L (3.5 lb/g	gal). Individual		
	-	uirements for VOC limits may differ.							
7		nded DFT values are listed by manufacturer (see NT					ct Data Sheets.		
8		e in coating formulation from that tested will result		-					
9		erm is 5 years starting from the date of acceptance u				-			
*	-	e is CONDITIONAL pending submission within for	•		•	•			
		ges painted with the paint system must be submitted		•	-				
**	Requalification	ation is per R-31, sect. 12.1, except that the manufac	turer has a	n additional	(6th) ye	ar to compl	ete the 5-year		
	requalifie	cation term if the identical system is being retested a	t the end of	f the 5-year	term.				





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.