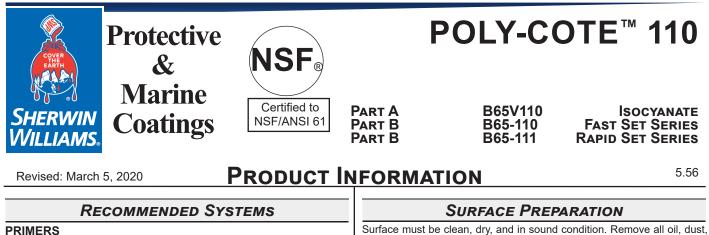
COVER EXTENT	Protective &	NSF	R	PO	LY-CO	TE [™] 110
SHERWIN WILLIAMS.	Marine Coatings	Certified NSF/ANS	61	Part A Part B Part B		Isocyanate Fast Set Series Apid Set Series
Revised: March	5, 2020	PRODU	CT IN	FORMATION	N	5.56
P	RODUCT DESCRIP	ΤΙΟΝ		Product	Characterist	TICS (Cont'd)
formulated to properties. The re- coat – even on sear polyurethane form	is a two component ovide optimal build pro quired coating thickness ms, welds and rivets. It is nulated without solvent	perties and a can be applie a 100% solids, s. Poly-Cote	esthetic d in one aromatic 110 was	Shelf Life: Flash Point: Reducer:	Store ind 100°F (3 428°F (22	
	oduction applications whon characteristics are re-		eds and	REG	COMMENDED L	lses
				 Water Conveyance Water & Wastewate Mining Rail 		
Color:	Off White, Blue		<i>(</i>)	Pulp & Paper Indus		
Finish:	Gray, and Black Gloss		,		oved applications: 25	50 mils (6250 microns)
Volume Solids:	100%, mixed			DFT maximum with 2 *Potable Water: Meet		
VOC:	No measurable	VOC levels		components. Fittings Valve ≥ 2 in.	≥ 2 in.; Pipe ≥ 8 in.; T	ānk ≥ 50 gallons;
Mix Ratio:	1:1 by volume			*Refer to NSF website	e <u>http://nsf.org</u> for ad	ditional information
Recomm Wet mils (micro	nended Spreading Ra Minim ns) 20.0 (ium Maxi	mum (12,500)	Test Name	Test Method	Results
Dry mils (microi ~Coverage sq f	ns) 20.0 (500) >500 *		Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	<100 mg loss
Theoretical covera (m²/L) @ 1 mil / 25	age sq ft/gal	,	` ´		ASTM D4541	>1500 psi
* 250 mils (6250 m NOTE: Brush c	nicrons) maximum for NSF or roll application may requ	uire multiple coa		Adhesion	ASTM D6677	Rating - 10
Brush and roll ap	<i>m film thickness and unifo</i> plications are intended for ze Poly-Cote 115FR for the	field repairs an	d weld	Cathodic Disbondment	ASTM G95, mtd A	<12-mm radius
<u>Drying Sch</u> Fast Set: Tack free: To recoat (max	edule @ 35.0 mils wet @ 75°F/ 90-150 se .): 2 hou	/24°C econds	<u>):</u>	Chemical Resistance	ASTM D543	10% H ₂ SO ₄ <5% 30% NaCl <5% 30% NaOH <5% Diesel Fuel <5%
To handle:	5-10 mi			Dielectric Strength	ASTM D149	>250 V/mil
To cure*:	4 hou			Elongation	ASTM D412	>3%
	time is exceeded, abrade s perature, humidity, and filn		•	Flexibility	ASTM D522, 3" mandrel	No cracking or delamination
	service at 70°F (21°C) for 15-20 seconds (10	NSF application	ns.	Hardness, Durameter	ASTM D2240	>65, Shore D
Drying Sch	nedule @ 35.0 mils wet	(875 microns	<u>):</u>	Impact Resistance	ASTM G14	>75 in-lbs, minimum
Rapid Set: Tack free: To recoat (max		nutes urs		Service Temperature	Maximum Surge: 3	ed (max): 140°F (60°C)
To handle: To cure*:	20-25 m 6 hou			Tensile Strength	ASTM D412	>4000 psi
If maximum recoat i	time is exceeded, abrade s	surface before re	•	Water Absorption	ASTM D570	2.0%, maximum
	perature, humidity, and filn service at 70°F (21°C) for 55-65 seconds (10	NSF application	s.	Water Vapor Permeability	ASTM E96	0.09 in. lbs. @ 53 mils (1325 microns)

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Steel: Self-priming Galvanized Steel: Self-priming			grease, dirt, loose rust, and adhesion.	other foreign ma	aterial to er	sure adequate
Ductile Iron: Self-priming		Thickness / ct.	Minimum recommended surfa Steel: Large parts/structures (>50 ft²):	SSPC-SP10/NA		
Steel- Immersion :AWWA C222	<u>Mils</u>	(Microns)	Small area (<50 ft²):	3 mil (75 micror SSPC-SP11	i) angular pr	offie
1 ct Poly-Cote 110	20.0	(400)	Ductile Iron Pipe: Atmospheric:	NAPF 500-03-0		
Galvanized, Immersion 1 ct Poly-Cote 110	20.0	(400)	Buried & Immersion: Cast Ductile Iron Fittings:	NAPF 500-03-0 NAPF 500-03-0		
Ductile Iron, Immersion 1 ct Poly-Cote 110	20.0	(400)	Galvanized Steel: Large parts/structures (>50 ft²): Small area (<50 ft²):	SSPC SP16, m angular profile SSPC-SP3	inimum 3 mi	l (50 micron)
		Surface Preparation Standards Condition of ISO 8501-1				
TOPCOATS Approved aliphatic urethanes. Contact your Sherwin-Williams representative for more information.		White Metal Near White Metal Commercial Blast Brush-Off Blast Hand Tool Cleaning Pitted & Rus	B\$7079:A1 Sa 3 Sa 2.5 Sa 2 Sa 1	SSPC SP 5 SP 10 SP 6 SP 7 SP 2 SP 2	NACE 1 2 3 4	
Advant	AGES		Power Tool Cleaning Pitted & Rus		SP 3 SP 3	-
 Low permeability - improves life cycle performance and corrosion resistance. 		Application Conditions				

· Chemical resistant - resistant to a broad spectrum of acidic and caustic chemicals

- · Abrasion & Impact resistant reduces the need for field touch-up caused by damage from handling, transporting, and installation; Increases life cycle due to reduced abrasion and impact from foreign materials.
- Excellent adhesion exceeds 1,500 psi on properly prepared steel
- High film build properties achieve specified DFT's in a single coat even are sharp edges and angles
- Easily Maintained Repairs can be completed quickly with the use of the Poly-Cote 115FR Field Repair Kit
- Physical toughness high physical performance strengths offering extreme durability

Temperature: Part A:	
Part A:	140°F (60°C) minimum, 160°F (71°C) maximum, Preheat Product to 110°F
Part B:	140°F (60°C) minimum, 160°F (71°C)
	140°F (60°C) minimum, 160°F (71°C) maximum, Preheat Product to110°F 140°F (60°C) minimum, 160°F (71°C)
Hose:	maximum
Air:	0°F (-18°C) minimum, 120°F (49°C)
Surface:	$maximum \qquad 40^{\circ} \Gamma (4.5^{\circ} C) minimum \qquad 140^{\circ} \Gamma (60^{\circ} C)$
Surface.	40°F (4.5°C) minimum, 140°F (60°C) maximum
	at least 5°F (2.8°C) above dew point
Relative humidity:	95% maximum

Refer to product Application Bulletin for detailed application information.

ORDERING INFORMATION

Packaging:	
Weight: Part A	

Part B Mixed: 50 gallons (189L) in a 55-gallon (208L) size drum and 250 gallons (945L) in a 250-gallon (945L) size tote

9.20 ± 0.2 lb/gal ; 1.10 Kg/L 9.70 ± 0.2 lb/gal ; 1.16 Kg/L 9.45 ± 0.2 lb/gal ; 1.13 Kg/L

SAFETY PRECAUTIONS

Refer to the SDS sheet before use.

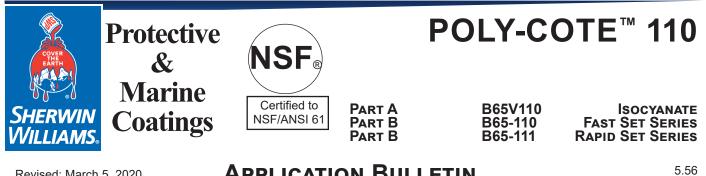
Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

WARRANTY

The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams quality control procedures. Liability for products proven defective, if any, is limited to replacement of the defective product or the refund of the purchase price paid for the defective product as determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MER-CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

DISCLAIMER

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APPLICATION BULLETIN

SURFACE PREPARATIONS

Surface must be clean, dry, and in sound condition. Remove all oil, dust, grease, dirt, loose rust, and other foreign material to ensure adequate adhesion.

Iron & Steel

Revised: March 5, 2020

(For Galvanizing - Contact Your Local Rep for Applicable Surface Prep Standards)

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. The substrate shall not contain soluble salt concentrations in excess of 3 ppm for chlorides, 5 ppm for nitrates, and 10 ppm for sulfates. Surface with soluble salt concentrations in excess of these values shall be cleaned until satisfactory results are obtained. Minimum surface preparation for large surfaces shall be Near White Metal Blast Cleaning per SSPC-SP10/NACE No. 2. Blast clean all surfaces using sharp, angular abrasive for optimum surface profile (3 mils or greater average, with no individual reading being less than 2.5 mils per NACE RP0287). Small surface areas (<50 sq. ft.) shall be Power Tool Cleaned To Bare metal per SSPC-SP11. Grind all surfaces utilizing mechanical scarification capable of producing the greatest surface profile and shall be performed in a perpendicular pattern to the direction of flow on the substrate. Remove all weld spatter, smooth all rough welds, and round all sharp edges by grinding prior to abrasive blasting.

Existing coating shall be feathered 1.5 in. to 3 in. when coating adjacent bare steel, such as girth welds. Prior to coating, the applicator will tape off, using duct tape, a line between feathered coating and the remaining non-blasted coating and ensure the edge of tape is on the roughened coating.

Cleaned surface shall be dry air blasted and either brushed off or vacuumed, in a manner to remove dust and debris prior to coating, and shall be coated before any rust blooming occurs. Any cleaned steel showing rust stains shall be re-prepared prior to coating.

Ductile Iron Pipe, Atmospheric Service:

Minimum surface preparation is Power Tool Clean per NAPF 500-03-03. Remove all oil and grease from surface by Solvent Cleaning per NAPF 500-03-01.

Ductile Iron Pipe, Buried and Immersion Service:

Minimum surface preparation is Abrasive Blast Cleaning per NAPF 500-03-04. Ductile iron pipe external surfaces, in some cases, can be damaged by excessive abrasive blast cleaning beyond this standard. Remove all oil and grease from surface by Solvent Cleaning per NAPF 500-03-01.

Ductile Iron Fittings:

Minimum surface preparation is Abrasive Blast Cleaning of Cast Ductile Iron Fittings per NAPF 500-03-05. Remove all oil and grease from surface by Solvent Cleaning per NAPF 500-03-01.

Surface Preparation Standards					
	Condition of Surface	ISO 8501-1 BS7079:A1	SSPC	NACE	
White Metal Near White Metal Commercial Blast Brush-Off Blast	5	Sa 3 Sa 2.5 Sa 2 Sa 1	SP 5 SP 10 SP 6 SP 7	1 2 3 4	
Hand Tool Cleaning	Rusted Pitted & Rusted Rusted	C St 2 D St 2 C St 3	SP 2 SP 2 SP 3	-	
Power Tool Cleaning	Pitted & Rusted		SP 3	-	

APPLICATION CONDITIONS

maximum

maximum

maximum

140°F (60°C) minimum, 160°F (71°C)

maximum, Preheat Product to 110°F

140°F (60°C) minimum, 160°F (71°C)

140°F (60°C) minimum, 160°F (71°C)

maximum, Preheat Product to110°F

0°F (-18°C) minimum, 120°F (49°C)

40°F (4.5°C) minimum, 140°F (60°C)

at least 5°F (2.8°C) above dew point

Temperature: Part A:

Part B:

Hose:

Surface:

Air:

Relative humidity: 95% maximum

APPLICATION EQUIPMENT

The following is a guide. Changes in pressures and tip sizes may be needed for proper spray characteristics. Always purge spray equipment before use with listed reducer.

Reducer	Not recommended
Clean Up	MEK R6K10
Purge Solvent	MEK R6K10

Recommended Spray Equipment*

Hydraulic Spray

Pump	Graco/Gusmer H-35 or HXP3 system
	at 1:1 ratio
Transfer Pumps	2:1 Graco T2
Pressure	2000-2500 psi at gun pressure
Hose	3/8" Resin, 3/8" Isocyanate, 300'
	Maximum + 10' - 1/4" Resin X
	1/4" Isocyanate whip hose, direct
	impingement,mechanical purge gun
Тір	TBD
11P	

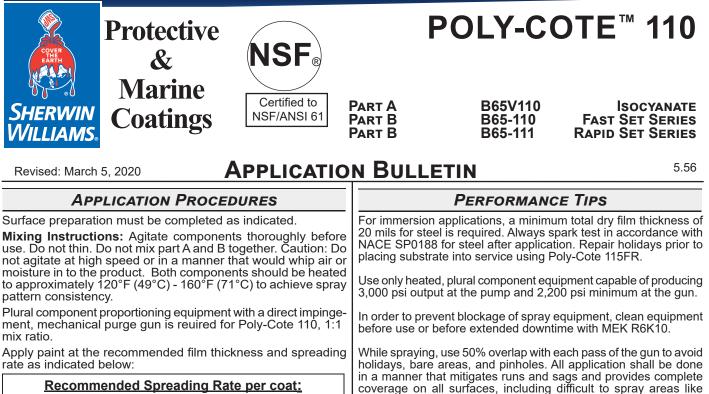
Conventional Spray......Not recommended

Brush**Repairs and touch only**

*Application training is required and spray equipment must be approved by Sherwin-Williams Technical Service.

**For touch up and repair utilize Sherwin-William Poly-Cote 115FR.

If specific application equipment is not listed above, equivalent equipment may be substituted and must be approved by Sherwin-Williams Technical Service.



Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness, or porosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, climatic conditions, and excessive film build.

Do not agitate in a manner that would whip air and moisture in to the product.

Consult you Sherwin-Williams representative for specific application and performance recommendations.

Where a hold primer is used, do not fill the profile on concrete or steel with excess primer. Topcoat epoxy primers immediately after they become tack free. "Tack free" is defined as slight to medium pressure with a gloved hand, placed on a primed surface, that when lifted shows a slight imprint or distortion to the surface, with no transfer of primer to the glove

Refer to Product Information sheet for additional performance characteristics and properties.

CLEAN UP INSTRUCTIONS

Clean spills and spatters immediately with MEK R6K10. Clean tools and equipment immediately after use (including both A and B sides of plural component spray system) with MEK R6K10.

SAFETY PRECAUTIONS

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welds, seams and angles.

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rate as indicated below	V.						
<u>Recommende</u>	ed Spread	ding F	Rate pe	er coat	<u>:</u>		
Minimum Maximum							
Wet mils (microns)		20.0	(500)	>500	(12,500)		
Dry mils (microns)		20.0	(500)	>500*	(12,500)		
~Coverage sq ft/gal	(m²/L)	3	(0.07)	80	(1.96)		
Theoretical coverage so (m²/L) @ 1 mil / 25 micr	ft/gal ons dft	1600	(39.2)				
* 250 mils (6250 microns)) maximum f	or NSF	applicat	ions.			
NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance. Brush and roll applications are intended for field repairs and weld seams. Utilize Poly-Cote 115FR for these applciations.							
Drying Schedul	e @ 35.0 m	nils we	et <u>(875</u>	micron	<u>s):</u>		
Fast Set:		@ 75°	F/24°C				
Tack free:	90)-150 :	second	s			
To recoat (max.):		2 h	ours				
To handle:	5-10 minutes						
To cure:	4 hours						
If maximum recoat time is exceeded, abrade surface before recoating.							
Drying time is temperature, humidity, and film thickness dependent.							
At 24 hour cure to service at 158°F (70°C) for NSF applications.							
Pot life: 15-20 seconds (100 grams mass)							
Drying Schedule @ 35.0 mils wet (875 microns):							
Rapid Set:		@ 75°	F/24°C				
Tack free:	4-6 minutes						
To recoat (max.):	4 hours						
To handle:	20-25 minutes						
To cure:	6 hours						
If maximum recoat time is exceeded, abrade surface before recoating.							
Drying time is temperate							
At 24 hour cure to service at 70°F (21°C) for NSF applications.							
Pot life: 55-65 seconds (100 grams mass)							
Application of coating	j above m	naximu	um or l	oelow r	ninimun		

Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.

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