	Protec & Mar			C	OROTH	IANE [®] II
SHERWIN WILLIAMS.	Coati			Part A Part B	B65-200 Series B60V2	Satin Hardener
Revised 9/11		Ρ	RODUCT I	NFORMATION		5.20
1	Product L	DESCRIPTION		R	ECOMMENDED U S	ES
 COROTHANE II is a 2-component, low VOC, aliphatic acrylic modified polyurethane designed for use in industrial environments. A chemical and abrasion resistant urethane enamel. A heavy duty maintenance coating for use in high visibility areas Outstanding flexibility Outstanding application properties 			Use over prepared sub Offshore platforms Rolling stock Paper mills Clean rooms Power plants Conveyors Refineries Stickle factors in US	 Exterior surfact Structural stee Chemical proce Exterior metal Marine application Oil field machine Handrails 	es of steel tanks I essing equipment siding and trim ttions	
		ARACTERISTICS	5	Suitable for use in US	DA Inspected facilities.	
Finish:SatinColor:Wide range of colors available, including safety colorsVolume Solids:60% ± 2%, mixed, may vary by colorWeight Solids:76% ± 2%, mixed, may vary by color			PERFORMANCE CHARACTERISTICS Substrate*: Steel Surface Preparation*: SSPC-SP6/NACE 3 System Tested*: 1 ct. Recoatable Epoxy Primer @ 4.0 mils (100 microns) dft 1 ct. Corothane II @ 3.0 mils (75 microns) dft			
VOC (EPA methoo Mix Ratio:		duced: <340 g iced 10%: <400 g y volume	g/L; 2.8 lb/gal g/L; 3.33 lb/gal	*unless otherwise noted be	èlow `	,
		ading Rate per	r coat:	Test Name	Test Method ASTM D4060, CS17	Results
	-	Minimum	Maximum	Abrasion Resis- tance	wheel, 1000 cycles, 1 kg load	142 mg loss
Wet mils (micror Dry mils (micror		3.0 (75) 2.0 (50)	7.0 (175) 4.0 (100)	Accelerated Weath- ering - QUV ¹	ASTM D4587, QUV-A, 12,000 hours	Passes
~Coverage sq fi		230 (5.6)	500 (12.2)	Adhesion	ASTM D4541	1600 psi
Theoretical covera (m²/L) @ 1 mil / 25 NOTE: Brush o achieve maximut	microns dft	960 (23.5) on may require mul is and uniformity of	tiple coats to f appearance.	Corrosion Weather- ing ²	ASTM D5894, 30 cycles, 10,000 hours	Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D610 for rusting
		mils wet (100 i		Direct Impact Resis- tance	ASTM D2794	85 in. lbs.
	@ 40°F/4.5°C	@ 77°F/25°C 50% RH	@ 120°F/49°C	Dry Heat Resistance	ASTM D2485	200°F (93°C)
To touch:	6 hours	2 hours	1 hour	Exterior Durability	1 year at 45° South ASTM D522, 180°	Passes
To handle: To recoat:	24 hours	8 hours	4 hours	Flexibility	bend, 7/16" mandrel	Passes
minimum: maximum:	24 hours 14 days	8 hours 14 days	4 hours 14 days	Moisture Condensa- tion Resistance	ASTM D4585, 100°F (38°C), 1000 hours	No blisters, rust, delamination, or rust creepage at scribe
To cure: Pot Life:	14 days 8 hours	10 days 4 hours	7 days 2 hours	Pencil Hardness	ASTM D3363	B
Sweat-in-Time: If maximum recoat t Drying time is temp	ime is exceede	None Required	before recoating.	Salt Fog Resistance ³	ASTM B117, 11,000 hours	Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D610 for rusting
Shelf Life:		Part A - 36 mor Part B - 24 mon Store indoors at	ths, unopened	Thermal Shock	ASTM D2246, 5 cycles	Excellent
100°F (38°C).Flash Point:80°F (27°C), mixed 72°F (22°C), mixed Ultradeep Point		<u>Footnotes:</u> ¹ Primer - Zinc Clad II -				
BaseReducer/Clean Up:Spray:Reducer #58, R7K58Brush / Roll:Reducer #216, R7K216		² Primer - Zinc Clad II I ³ Primer - Zinc Clad II I				



Application Bulletin.

COROTHANE® II

Part A	B6
Part B	B6

5-200 Series 0V2

Satin Hardener

PRODUCT INFORMATION

5.20

Recommended Systems			SURFACE PREPARATION		
	Dry Film Tł <u>Mils</u>	nickness / ct. (Microns)	Surface must be clean	, dry, and in sound condition. Remove all	
Steel, universal primer:	<u>IMITS</u>	<u>(iniciona)</u>	oil, dust, grease, dirt, ensure adequate adhe	loose rust, and other foreign material to	
1 ct. Kem Bond HS Primer	2.0-5.0	(50-125)			
1-2 cts. Corothane II	2.0-4.0	(50-100)	Refer to product Applic tion information.	cation Bulletin for detailed surface prepara-	
Steel, epoxy primer:			Minimum recommende	ed surface preparation:	
1 ct. Recoatable Epoxy Primer	4.0-6.0	(100-150)	* Iron & Steel:	SSPC-SP6/NACE 3, 2 mil (50 micron) profile	
1-2 cts. Corothane II	2.0-4.0	(50-100)	 * Aluminum: * Galvanizing: * Concrete & Masonry 	SSPC-SP1	
Steel, epoxy mastic primer:			Concrete & Masonry	r: ŠŠPČ-ŠP13/NACE 6 or ICRI No. 310.2. CSP 1-3	
1 ct. Epoxy Mastic Aluminum II	6.0-8.0	(150-200)	* Primer required		
1-2 cts. Corothane II	2.0-4.0	(50-100)		ace Preparation Standards	
.			Conditi Surface	BS7079:A1 SIS055900 SSPC NACE	
Steel, inorganic zinc-rich primer:	0050		White Metal Near White Metal	Sa 3 Sa 3 SP 5 1 Sa 2.5 Sa 2.5 SP 10 2	
1 ct. Zinc-Clad II Plus	3.0-5.0	(75-125)	Commercial Blast Brush-Off Blast	Sa 2 Sa 2 SP 6 3 Sa 1 Sa 1 SP 7 4	
1 ct. Recoatable Epoxy Primer 1-2 cts. Corothane II	4.0-6.0	(100-150)	Hand Tool Cleaning Rusted &	Cast 2 Cast 2 SP 2 - Rusted D St 2 D St 2 SP 2 - C St 3 C St 3 SP 3 - Rusted D St 3 D St 3 SP 3 - Rusted D St 3 D St 3 SP 3 -	
1-2 cts. Corotnane II	2.0-4.0	(50-100)	Power Tool Cleaning Rusted &	C St 3 C St 3 SP 3 - Rusted D St 3 D St 3 SP 3 -	
Galvanized Metal:				-	
1 ct. Tile-Clad High Solids	2.5-4.0	(63-100)		TINTING	
1-2 cts. Corothane II	2.0-4.0	(50-100)	Tint with Maxitoner cold Five minutes minimum for complete mixing of	prants only into Part A at 100% tint strength. mixing on a mechanical shaker is required	
Aluminum:					
1 ct. DTM Wash Primer	0.7-1.3	(18-32)	APP	LICATION CONDITIONS	
1-2 cts. Corothane II	2.0-4.0	(50-100)	Temperature:	40°F (4.5°C) minimum, 120°F (49°C) maximum	
Concrete:		<i></i>		(air, surface, and material)	
1 ct. Heavy Duty Block Filler		(250-450)		At least 5°F (2.8°C) above dew point	
1-2 cts. Corothane II	2.0-4.0	(50-100)	Relative humidity:	85% maximum	
To enhance Corothane II product per term weathering characteristics, appl			Refer to product Applic mation.	ation Bulletin for detailed application infor-	
Clear Coat Urethane @ 1.0-2.0 mils			ORI	DERING INFORMATION	
			Packaging:		
The systems listed above are representative of the product's use,			Part A: Part B:	1 gallon (3.78L) and 4 gallon (15.1L) kits 1 quart (0.94L) and 1 gallon (3.78L)	
other systems may be appropriate.			Weight: 11.9 ± 0.2 lb/gal ; 1.4 Kg/L mixed, may vary with color		
			SA	FETY PRECAUTIONS	
			Refer to the MSDS sheet be	efore use.	
			Published technical data ar Contact your Sherwin-Willia instructions.	nd instructions are subject to change without notice. The sepresentative for additional technical data and	
				WARRANTY	
DISCLAIM	ER			pany warrants our products to be free of manufactur-	
The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin- Williams representative to obtain the most recent Product Data Information and			Liability for products proven tive product or the refund of determined by Sherwin-Will OF ANY KIND IS MADE BY	plicable Sherwin-Williams quality control procedures. defective, if any, is limited to replacement of the defec- the purchase price paid for the defective product as iams. NO OTHER WARRANTY OR GUARANTEE SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, ON OF LAW OR OTHERWISE, INCLUDING MER-	

CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.



PART A PART B B65-200 SERIES B60V2

SATIN HARDENER

5.20

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 9/11

Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3. For better performance, use Near White Metal Blast Cleaning per SSPC-SP10/NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

Aluminum

Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. Primer required

Galvanized Steel

Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, or the surface has been treated with chromates or silicates, first Solvent Clean per SSPC-SP1 and apply a test patch. Allow paint to dry at least one week before testing adhesion. If adhesion is poor, brush blasting per SSPC-SP7 is necessary to remove these treatments. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2, prime the area the same day as cleaned. Primer required.

Concrete and Masonry

For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2, CSP 1-3. Surfaces should be thoroughly clean and dry. Concrete and mortar must be cured at least 28 days @ 75°F (24°C). Remove all loose mortar and foreign material. Surface must be free of laitance, concrete dust, dirt, form release agents, moisture curing membranes, loose cement and hardeners. Fill bug holes, air pockets and other voids with Steel-Seam FT910. Primer required.

Surface Proparation Standards

	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal Near White Metal Commercial Blast		Sa 3 Sa 2.5 Sa 2	Sa 3 Sa 2.5 Sa 2	SP 5 SP 10 SP 6	1
Brush-Off Blast	Durated	Sa 1	Sa 1	SP 7	3 4
Hand Tool Cleaning	Rusted Pitted & Rusted	C St 2 D St 2	C St 2 D St 2	SP 2 SP 2	-
Power Tool Cleaning	Rusted Pitted & Rusted	C St 3 D St 3	C St 3 D St 3	SP 3 SP 3	2

	Application Conditions
Temperature:	40°F (4.5°C) minimum, 120°F (49°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point

Relative humidity:

85% 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. Any reduction must be compliant with existing VOC regulations and compatible with the existing environmental and application conditions.

Reducer/Clean Up

Spray	.Reducer #58,	R7K58
Brush and Roll	.Reducer #216	R7K216

Airless Spray

Pressure	2400 psi
Hose	
Тір	
Filter	80 mesh
Reduction	As needed up to 10% by volume

Conventional Spray

Gun	Binks 95
Fluid Nozzle	63 B
Air Nozzle	69 PB
Atomization Pressure	50 - 70 psi
Fluid Pressure	20 - 25 psi
Reduction	As needed up to 10% by volume

Brush

Brush	Natural bristle
Reduction	As needed up to 10% by volume

Roller

Cover	.3/8" woven with solvent resistant c	ore
Reduction	As needed up to 10% by volume	

If specific application equipment is not listed above, equivalent equipment may be substituted.



COROTHANE® II

PART A B65-200 SERIES PART B B60V2 Satin Hardener

APPLICATION BULLETIN

5.20

Application Procedures	Performance Tips
Surface preparation must be completed as indicated.	Stripe coat all crevices, welds, and sharp angles to prevent early failure in these areas.
Mix contents of each component thoroughly with low speed power agitation. Make certain no pigment remains on the bottom of the can. Then combine 4 parts by volume of Part A with 1 part by volume of Part B. Thoroughly agitate the mixture with power agita-	When using spray application, use a 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle.
tion for 5 minutes. If reducer solvent is used, add only after both components have been thoroughly mixed. Apply paint at the recommended film thickness and spreading rate as indicated below:	Spreading rates are calculated on volume solids and do not include an application loss factor due to surface profile, roughness or po- rosity of the surface, skill and technique of the applicator, method of application, various surface irregularities, material lost during mixing, spillage, overthinning, climatic conditions, and excessive film build.
Recommended Spreading Rate per coat:	Excessive reduction of material can affect film build, appearance,
Minimum Maximum	and adhesion.
Wet mils (microns) 3.0 (75) 7.0 (175)	Do not mix previously catalyzed material with new.
Dry mils (microns) 2.0 (50) 4.0 (100) ~Coverage sq ft/gal (m²/L) 230 (5.6) 500 (12.2)	Do not apply the material beyond recommended pot life.
Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft960 (23.5)NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.	In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Reducer #58, R7K58.
Drying Schedule @ 4.0 mils wet (100 microns):	Mixed coating is sensitive to water. Use water traps in all air lines. Moisture contact can reduce pot life and affect gloss and color.
@ 40°F/4.5°C @ 77°F/25°C @ 120°F/49°C 50% RH To touch: 6 hours 2 hours 1 hour	Quick-Thane Accelerator is acceptable for use. See data page 5.97 for details.
To handle: 24 hours 8 hours 4 hours To recoat:	E-Z Roll Urethane Defoamer is acceptable for use. See data page 5.99 for details.
minimum: 24 hours 8 hours 4 hours	
maximum: 14 days 14 days 14 days	
To cure: 14 days 10 days 7 days	
Pot Life: 8 hours 4 hours 2 hours Sweat-in-Time: None Required	
If maximum recoat time is exceeded, abrade surface before recoating.	
Drying time is temperature, humidity, and film thickness dependent.	Defer to Draduct Information about for a driving of a set
Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating	Refer to Product Information sheet for additional performance characteristics and properties.
recommended spreading rate may adversely affect coating performance.	SAFETY PRECAUTIONS
	Refer to the MSDS sheet before use.
CLEAN UP INSTRUCTIONS	Published technical data and instructions are subject to change without notice.
Clean spills and spatters immediately with Reducer #58, R7K58. Clean tools immediately after use with Reducer #58, R7K58. Follow	Contact your Sherwin-Williams representative for additional technical data and instructions.
manufacturer's safety recommendations when using any solvent.	WARRANTY
DISCLAIMER	The Sherwin-Williams Company warrants our products to be free of manufacturing defects in accord with applicable Sherwin-Williams guality control procedures.
The information and recommendations set forth in this Product Data Sheet are based upon tests conducted by or on behalf of The Sherwin-Williams Company. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult your Sherwin- Williams representative to obtain the most recent Product Data Information and Application Bulletin.	Liability for products proven defective, if any, is limited to replacement of the de- fective 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.