	Pro	tective	HI	-S	OL	IDS PO	LYURE	THANE		
SHERWIN WILLIAMS	& Marine Coatings		Part S Part S Part S Part 1	8 B65-350 8 B65WW305	-	Gloss Series 11-Gloss Series 11 Base (Gloss) Hardener				
Revised: February 14, 2020 PRODUCT INFORMATION 5.21										
		t Descri	-			Recommended Uses				
HI-SOLIDS POLYURETHANE is a two-component, aliphatic, acryl- ic polyurethane resin coating. It is designed for high performance protection with outstanding exterior gloss and color retention.					c, acryl- mance on.	 For use over prepared substrates in industrial environments Heavy duty interior and exterior structural coating A chemical and abrasion resistant equipment and machinery finish A gloss and color retentive heavy duty maintenance coating for use in "high visibility" areas Exterior surfaces of steel tanks Refineries Clean rooms Chemical processing equipment Conveyors Handrails Resists film attack by mildew (MR White only) Suitable for use in USDA inspected facilities Acceptable for use in Canadian Food Processing facilities categories: D1, 				
 Good/excellent resistance to corrosion and weathering Outstanding color and gloss retention Chemical resistant Part of a system tested for nuclear irradiation and decontamination, Level II Resists film attack by mildew (MR White only) Outstanding application properties Applications down to 20°F (-7°C) 					amina-					
Pre	одист (CHARACT	ERISTIC	S		D3 (Confirm acceptance of specific part numbers/rexes with your SW Sales				
Finish:	Hig	h Gloss or S	emi-Gloss			Representative) Conforms to AWWA D102 OCS #5 & #6.				
Color:	Wie	de range of c	olors possi	ible		Acceptable for use in high performance architectural applications				
Volume Solids:	°						 As topcoat for NEPCOAT System A Over FIRETEX hydrocarbon systems 			
Weight Solids:	779	% ± 2%, mixe	ed, may va	ry by co	olor	PERFORMANCE CHARACTERISTICS				
VOC (EPA Method 24): Unreduced: <340g/L; 2.80 lb/gal mixed Reduced 15%: <370 g/L; 3.08 lb/gal					mixed gal	Substrate*: Steel				
May vary by color Mix Ratio: 4:1 by volume						Surface Preparation*: SSPC-SP6/NACE 3				
		Spreading I	Pato nor (coat'		System Tested*: 1 ct. Recoatable Er	oxy Primer @ 4.0 mi	ls (100 microns) dft		
Wet mils (micr		Min		Maxin	num (200)	1 ct. Recoatable Epoxy Primer @ 4.0 mils (100 microns) dft 1 ct. Hi-Solids Polyurethane Gloss @ 3.0 mils (75 microns) dft *unless otherwise noted below				
Dry mils (micr	,		(75)		(125)	Test Name	Test Method	Results		
~Coverage sq Theoretical cov	ft/gal (m²/ erage sq ft/	/L) 208 /gal 1040	(5.1)	347 (Abrasion Resistance	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	87.1 mg loss		
(m²/L) @ 1 mil / 2		an	. ,		s to	Adhesion	ASTM D4541	1050 psi		
NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance. Drying Schedule @ 4.5 mils (112.5 microns) wet:				nce.	Corrosion Weathering¹	ASTM D5894, 21 cycles, 7056 hours	Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D610 for rusting			
	@ 20°F/-7°C	@ 40°F/4.5°C	@ 77°F/25°C 50% RH	(120°F	@ F/49°C	Direct Impact Resistance	ASTM D2794	>28 in. lbs.		
To touch:	16 hours	4 hours	2 hours	1 h	nour	Dry Heat Resistance	ASTM D2485	200°F (93°C)		
To handle: To recoat:	14 days	16 hours	8 hours		ours	Flexibility	ASTM D522, 180° bend, 1/8" mandrel	Passes		
minimum: maximum:		24 hours 14 days	18 hours 14 days		nours days	Moisture Condensa- tion Resistance	ASTM D4585, 100°F (38°C), 1000 hours	No rusting, blistering, or delamination		
	40 days	14 days 14 days	14 days 10 days		lays	Pencil Hardness	ASTM D3363	F		
If maximum recoa Drying time is ter Pot Life:	nt time is exc	eeded, abrade	e surface be	fore rec s deper	coating.	Salt Fog Resistance ¹	ASTM B117, 9000 hours	Rating 10 per ASTM D714 for blistering; Rating 9 per ASTM D610 for rusting		
Sweat-in- Time: Shelf Life:		Part T ·	- 36 month - 24 month	s, unop	ened	Surface Burning	ASTM E84	Flame Spread Index 0; Smoke Development Index 0 (at 3.5 mils or 88 microns)		
		Store ir 100°F	ndoors at 40 (38°C).)°F (4.5	5°C) to	Thermal Shock	ASTM D2246, 15 cycles	Excellent		
Flash Point: 80°F (27°C), PMCC, mixed Reducer/Clean Up: Meets the requirements of SSPC Paint No. 36, Level 3 for white and light colors. Dark colors may require a clear coat. Below 80°F (27°C): Reducer #69, R7K69 or R7K111 Above 80°F (27°C): Reducer #58 or R6K32						oat.				
						¹ Primer: Zinc Clad II Plus	s; Intermediate - Recoatal	ble Epoxy Primer		

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continued on back

Pro		Hŀ	SOL	.ID	S PC	C	YURET	HANE
C	& Iarine Datings		Part Part Part Part	S S	B65-300 B65-350 B65WW3 B60V30	305		Gloss Series Gloss Series Base (Gloss) Hardener
Revised: February 14, 2	2020 P	RO	DUCT IN		RMATIC	ON		5.21
Recommended Systems					SURFACE PREPARATION			
Steel: Epoxy Primer	Dry F <u>Mil</u>		ckness / ct. <u>(Microns)</u>	dust, g	e must be cl grease, dirt, ate adhesio	loose	dry, and in sound condi rust, and other foreigr	tion. Remove all oil, n material to ensure
1 ct. Recoatable Epox 1-2 cts. Hi-Solids Polyure		-6.0 -5.0	(100-150) (75-125)	Refer to product Application Bulletin for detailed surface prepa tion information.				
Steel: Epoxy Primer 1 ct. Dura-Plate 235 1-2 cts. Hi-Solids Polyure	thane 3.0-	-8.0 -5.0	(100-200) (75-125)	* Iron * Alun * Galv	um recomm & Steel: ninum: /anizing: crete & Mas		surface preparation: SSPC-SP6/NACE (50 micron) profile SSPC-SP1 SSPC-SP1 SSPC-SP13/NACE No. 310.2R, CSP 1	
Steel:Zinc Rich Prime1 ct.Zinc Clad II Plus1 ct.Macropoxy 6461-2 cts.Hi-Solids Polyure	2.0- 5.0-	-4.0 -10.0 -5.0	(50-100) (125-250) (75-125)		Su Su		ce Preparation Standards n of ISO 8501-1 Swedis BS7079:A1 SIS055 Sa 3 Sa 3	sh Std. 900 SSPC NACE SP 5 1
Steel: Epoxy Mastic Pr 1 ct. Macropoxy 646 1-2 cts. Hi-Solids Polyure Steel: Universal Prime	5.0- ethane 3.0-	-10.0 -5.0	(125-250) (75-125)	Hand To	ordinite Metal rcial Blast off Blast pol Cleaning Ri ool Cleaning Ri ool Cleaning Pi	Rusted Pitted & F Rusted Pitted & F	Sa 2.5 Sa 2.5 Sa 2.5 Sa 2 Sa 2 Sa 2 Sa 1 Sa 1 Sa 1 C St 2 C St 2 C St 2 Rusted D St 2 D St 2 C St 3 C St 3 C St 3 Rusted D St 3 D St 3	SP 10 2 SP 6 3 SP 7 4 SP 2 - SP 3 - SP 3 - SP 3 -
1 ct. Kem Bond HS Me 1-2 cts. Hi-Solids Polyure	etal 2.0-	-5.0 -5.0	(50-125) (75-125)	Tint wi	ith Maxitone	er Col	TINTING orants only into Part S	Extra White tints
	2.0- y Intermediate 3.0-		(50-100) (75-150)	at 200' minute	% tint strenges minimum ete mixing o	igth. U n mixin of colo	Jitradeep tints at 150% ig on a mechanical sh r.	aker is required for
1 ct.Hi-Solids PolyureAluminum:1 ct.DTM Wash Prime1-2 cts.Hi-Solids Polyure	er 0.7-	-5.0 -1.3 -5.0	(75-125) (18-32) (75-125)	Tempe	AP. erature:	PLIC	20°F (-7°C) minimu 120°F (49°C) maxi (air, surface, and m Do not apply over s At least 5°F (2.8°C	um mum naterial) surface ice
Concrete: 1 ct. Kem Cati-Coat E Filler/Sealer	poxy HS 10.	0-15.0	(250-375)		ve humidity: o product App		85% maximum n Bulletin for detailed app	
1-2 cts. Hi-Solids Polyure	thane 3.0-	-5.0	(75-125)		Or	RDE	RING INFORMATI	ON
Galvanized Metal: 1 ct. Recoatable Epox 1-2 cts. Hi-Solids Polyure	, · · ·	-6.0 -5.0	(100-150) (75-125)	Packag Part Part Weight	ging: S: T:		1 gallon (3.78L) and quarts (0.94L) and	4 gallon (15.1L) kits gallons (3.78L)
FIRETEX ONLY: Finish Coat for FIRETEX Hydrocarbon Systems: 1 ct. Hi-Solids Polyurethane*					S		10.7 ± 0.2 lb/gal ; 1 mixed, may vary w	
*Consult FIRETEX PFP Specialist for recommended dft range The systems listed above are representative of the product's use, other systems may be appropriate.					o the SDS shee ed technical da your Sherwin ons.		l instructions are subject to ns representative for addition	change without notice. onal technical data and
				The Ob	anuin M/W	0.00000		be free of menufactu
DiscLAIMER 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.				ing defer Liability tive proc determin OF ANY STATUT	ects in accord w for products pr duct or the refu ned by Sherwi / KIND IS MAD FORY, BY OPE	with app roven de und of t vin-Willia DE BY S ERATIC	any warrants our products to licable Sherwin-Williams qu efective, if any, is limited to re he purchase price paid for t ams. NO OTHER WARRA SHERWIN-WILLIAMS, EXP DN OF LAW OR OTHERWI SS FOR A PARTICULAR PL	ality control procedures. pplacement of the defec- the defective product as NTY OR GUARANTEE RESSED OR IMPLIED, ISE, INCLUDING MER-

	Protective	HI-SOL		S POL	YURETHANE			
SHERWIN WILLIAMS.	& Marine Coatings	Part Part Part Part	S S	B65-300 B65-350 B65WW305 B60V30	Gloss Series Semi-Gloss Series MR, White Tint Base (Gloss) Hardener			
Revised: Februa	ary 14, 2020	APPLICATIO	ON B	ULLETIN	5.21			
SL	IRFACE PREPARA	TIONS	.	APPLICATION CONDITIONS				
Surface must be o oil, dust, grease, ensure adequate a	clean, dry, and in sound dirt, loose rust, and oth adhesion.	condition. Remove all her foreign material to	Tempe	rature:	20°F (-7°C) minimum 120°F (49°C) maximum (air, surface, and material) Do not apply over surface ice At least 5°F (2.8°C) above dew point			
Iron & Steel Remove all oil and	d grease from surface b	y Solvent Cleaning pe	r I	e humidity:	85% maximum			
Cleaning per SSF	num surface preparatio PC-SP6/NACE 3. For be	etter performance, use		APPLICATION EQUIPMENT				
clean all surfaces surface profile (2 m day as it is cleane Aluminum Remove all oil, gr	Blast Cleaning per SSP using a sharp, angular hils / 50 microns). Prime a d or before flash rusting ease, dirt, oxide and ot per SSPC-SP1. Primer	 abrasive for optimum any bare steel the same occurs. her foreign material by 	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.					
Galvanized Steel Allow to weather a all oil, grease, dir Cleaning per SSP surface has been ti Clean per SSPC-S least one week be blasting per SSPC Rusty galvanizing SSPC-SP2, prime required.	minimum of six months p t, oxide and other foreig C-SP1. When weatherin treated with chromates of SP1 and apply a test pat fore testing adhesion. If -SP7 is necessary to rer requires a minimum of h the area the same da	rior to coating. Remove gn material by Solven g is not possible, or the or silicates, first Solven ch. Allow paint to dry a adhesion is poor, brush nove these treatments land Tool Cleaning pe	Above 80°F (27°C)Reducer #58 or R6K32 Airless Spray Pressure					
310.2R, CSP 1-3. Concrete and mort Remove all loose free of laitance, co curing membranes	sonry ation, refer to SSPC-SP Surfaces should be the ar must be cured at least mortar and foreign mat increte dust, dirt, form re s, loose cement and hard voids with Steel-Seam F	proughly clean and dry 28 days @ 75°F (24°C) terial. Surface must be elease agents, moisture eners. Fill bug holes, ai	Gun Fluid Atom Fluid	Nozzle nization Pressure	63 B 50 - 70 psi			
ASTM D4258 Star ASTM D4259 Star ASTM D4260 Star ASTM F1869 Stan Emission Rate of (SSPC-SP 13/Nace	ard methods listed bel ndard Practice for Clean ndard Practice for Abrad ndard Practice for Etchir dard Test Method for Me Concrete. e 6 Surface Preparation Concrete Surface Prepar	ing Concrete. ing Concrete. ig Concrete. asuring Moisture Vapol of Concrete.	Redu Roller Cove	uction	Natural bristle As needed up to 15% by volume 3/8" woven with solvent resistant core As needed up to 15% by volume			
Su White Metal Near White Metal Commercial Blast Brush-Off Blast	urface BS7079:A1 SI Sa 3 Sa Sa 2.5 Sa Sa 2 Sa Sa 1 Sa	ards wedish Std. S055900 SSPC NACE a 2.5 SP 10 2 a 2.5 SP 10 2 a 2.5 SP 6 3 a 1 SP 7 4 St 2 SP 2 - St 2 SP 2 - St 3 SP 3 - St 3 SP 3 -		ific application e nent may be subs	quipment is not listed above, equivalent stituted.			

	Protective	HI-S	SOL	IDS POL	YURETHANE		
SHERWIN WILLIAMS.	& Marine Coatings		Part Part Part Part	S B65-350 S B65WW305	Gloss Series Semi-Gloss Series MR, White Tint Base (Gloss) Hardener		
Revised: Februa	ary 14, 2020	APPLIC	CATIO	N BULLETIN	5.21		
App	PLICATION PROC	EDURES	Performance Tips				
Surface preparati	on must be complete	ed as indicated		Stripe coat all crevices failure in these areas.	, welds, and sharp angles to prevent early		
agitation. Make of the can. Then con by volume of Part	ch component thoroug certain no pigment re mbine 4 parts by volu . T. Thoroughly agitate	mains on the l me of Part S w	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.				
been thoroughly m Apply paint at the	recommended film t	·	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				
rate as indicated	below: Iended Spreading			film build. Excessive reduction of material can affect film build, appearance,			
Wet mils (micro Dry mils (micror ~Coverage sq f Theoretical cover (m²/L) @ 1 mil / 25 NOTE: Brush c achieve maximu	Min ns) 4.5 ns) 3.0 t/gal (m²/L) 208	imum Max (112) 8.0 (75) 5.0 (5.1) 34 (25.5) 2000000000000000000000000000000000000	ximum 0 (200) 0 (125) 7 (8.5) pats to parance.	and adhesion. Do not apply the mater Do not mix previously of In order to avoid blockay fore use or before period Mixed coating is sensit	ial beyond recommended pot life. catalyzed material with new. ge of spray equipment, clean equipment be- ds of extended downtime with Reducer #58. ive to water. Use water traps in all air lines. educe pot life and affect gloss and color.		
	@ @ @ 0°F/-7°C 40°F/4.5°C	50% RH	@ 20°F/49°C	Quick-Thane Urethane page 5.97 for details.	Accelerator is acceptable for use. See data		
	6 hours 4 hours 4 days 16 hours		1 hour 5 hours	E-Z Roll Urethane Defo 5.99 for details.	amer is acceptable for use. See data page		
maximum: un To cure: 4 If maximum recoat a Drying time is tem	2 hours 24 hours nlimited 14 days 0 days 14 days time is exceeded, abrad perature, humidity, and 3 days 8 hours	14 days 1 10 days e surface before film thickness dej	-	R7K69 reducer is acc below 80°F (28°C).	eptable at temperature both above and		
Sweat-in- Time:	None re			Refer to Product Infor characteristics and pr	mation sheet for additional performance operties.		
Application of correcommended sp performance.	oating above maxim preading rate may a	um or below i dversely affec	SAF Refer to the SDS sheet before	ETY PRECAUTIONS			
<u> </u>		07/01/0			d instructions are subject to change without notice.		
Clean spills and spa	EAN UP INSTRU atters immediately with use with Reducer #56	Reducer #58. C	Contact your Sherwin-Williams representative for additional technical data and instructions.				
	lations when using any			WARRANTY			
based upon tests cond Such information and re pertain to the product	Disclaimer ecommendations set forth in lucted by or on behalf of The ecommendations set forth h offered at the time of public e to obtain the most recent	n this Product Data the Sherwin-William erein are subject to cation. Consult yo	defects in accord with appli Liability for products proven fective product or the refund as determined by Sherwin-W OF ANY KIND IS MADE BY STATUTORY, BY OPERATI	any warrants our products to be free of manufacturing icable Sherwin-Williams quality control procedures. defective, if any, is limited to replacement of the de- of the purchase price paid for the defective product <i>i</i> illiams. NO OTHER WARRANTY OR GUARANTEE SHERWIN-WILLIAMS, EXPRESSED OR IMPLIED, ON OF LAW OR OTHERWISE, INCLUDING MER- ESS FOR A PARTICULAR PURPOSE.			