COVER EARTH	Protec &			-PLATE			
SHERWIN WILLIAMS.	Mari Coati			Part A Part A Part B Part B		Buff Blue OAP t Cure Hardener ndard Hardener	
Revised: July 18, 2019						TRM.37	
		ESCRIPTION			CHARACTERIST	ICS (Cont'd)	
<ul> <li>NOVA-PLATE UHS PRIMER is an ultra high solids epoxy novolac amine formulated specifically for use under Nova-Plate UHS Topcoat. For use in immersion service in ballast tanks, oil tanks, refined fuel storage tanks, and for well deck overheads. Nova-Plate UHS Primer provides excellent surface wetting and adhesion properties, especially over rust pitted steel surfaces.</li> <li>Airless Spray or Plural Component Application</li> <li>Low odor</li> </ul>				p-   <b>Shelf Life:</b> ed   S	Store ind to 100°F 230°F (1 <sup>-</sup> Not recor	is, unopened oors at 40°F (4.5°C) (38°C). 10°C), PMCC, mixed nmended K10) or R7K104	
<ul><li>High flash point,</li><li>Fast cure harder</li></ul>	ner available	)		R	ecommended U	SES	
For use over prepared steel or concrete in industrial and marin exposures such as:         Finish:       Gloss         Color:       Buff, Blue OAP         Volume Solids:       98% ± 2%, mixed         Weight Solids:       98% ± 2%, mixed         VOC (EPA Method 24):       <100 g/L; 0.83 lb/gal mixed with B62V220						5, 7, 13, 19, Grade C	
Kecomm		Minimum	Maximum	Perfor	Performance Characteristics		
Wet mils (microns)         6.0 (150)         12.0 (300)           Dry mils (microns)         6.0 (150)         12.0 (300)           Total mils (microns)         6.0 (150)         12.0 (300)           ~Coverage sq ft/gal (m²/L)         133 (3.2)         262 (6.4)           Theoretical coverage sq ft/gal (m²/L) @ 1 mil / 25 microns dft         1568 (38.4)         1568 (38.4)				Substrate*: Steel Surface Preparation*: SSPC-SP10/NACE 2 System Tested*: 1 ct. Nova-Plate UHS Primer @ 6.0-12.0 mils (150-300 microns) dft 1 ct. Nova-Plate UHS Topcoat @ 10.0-16.0 mils (250-400 microns) dft *unless otherwise noted below			
	@ 55°F/13°C	@ 77°F/25°C	@ 100°F/38°C	Tost Namo	Test Method	Populto	
To touch: To handle: To recoat: minimum:	9 hours 24 hours 24 hours	<b>50% RH</b> 3 hours 12 hours 12 hours	1-1/4 hours 4-1/4 hours 4-1/4 hours		Test Method ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load	<b>Results</b> 55 mg loss	
maximum: Cure to service: Pot Life: Sweat-in-time:	21 days 7 days 50 minutes	21 days 5 days 25 minutes Not required	14 days 5 days 10 minutes	Adhesion	ASTM D4541; ASTM D3359	1380 psi, minimum (ASTM D4541); 5A (ASTM D3359) Rating 10 per	
*Fast Cure Hardene With B62V221 To touch: To handle:	er must be applie @ 55°F/13°C 15 hours 36 hours	ad by Plural Comp @ 77°F/25°C 50% RH 4 hours 14 hours	onent Airless <u>onl</u> @ 100°F/38°C 2 hours 6 hours		ASTM D5894, 6 cycles, 2016 hours	ASTM D610 for rusting; Rating 10 per ASTM D714 for blistering	
To recoat:				Direct Impact Resistance	ASTM D2794	40 in. lb.	
minimum: maximum: Cure to service:	36 hours 21 days 7 days	14 hours 21 days 5 days	6 hours 14 days 5 days	Dry Heat Resistance	ASTM D2485	450°F (232°C), discolors	
If maximum recoat time is exceeded, abrade surface before recoating. Drying time is temperature, humidity, and film thickness dependent.							
Pot Life: Note: Pot life will b volume of material Sweat-in-time:		40 minutes igher temperatur Not required	20 minutes es and larger	Epoxy coatings may	darken or yellow following	application and curing.	

COVER THE EARTH	Protective &				PRIMER CHNOLOGY
SHERWIN WILLIAMS	Marine Coatings	5	Part A Part A Part B Part B	B62H220 B62L220 B62V220 B62V221	Buff Blue OAP Fast Cure Hardener Standard Hardener
Revised: July 1	8, 2019	Product	INFORMAT	ION	TRM.37
Re	COMMENDED S	YSTEMS		SURFACE PREI	
		Dry Film Thickness / o <u>Mils</u> (Microns)	ct. Surface must be of dust, grease, dirt, adequate adhesio	clean, dry, and in so , loose rust, and oth on.	und condition. Remove all oil, her foreign material to ensure
Steel: 1 ct. Nova-Plate 1 ct. Nova-Plate	UHS Primer UHS Topcoat	6.0-12.0 (150-300) 10.0-16.0 (250-400)	tion information.		for detailed surface prepara-
Concrete/Mason		10.0-10.0 (200-400)	Minimum recomn Iron & Steel: Atmospheric:	nended surface pre SSPC-SF	P6/NACE 3 2 mil
achieve uni	ler; apply primer to form hiding, appearar		Immersion:	WJ-3/SC- SSPC-SF (50-75 m)	P10/NACE 2, 2-3 mil icron)profile or
surface. Co	ete wetting of the conc pating will be partially nto the concrete. / puddles.	aete	Concrete & Ma Atmospheric:	*SPC- SF *marine e: sonry: SSPC-SE	212/NACE No. 5, WJ-2/SC-2 xterior hull only 213/NACE 6, or ICRI
1 ct. Nova-Plate 1 ct. Nova-Plate	UHS Primer	6.0-12.0 (150-300) 10.0-16.0 (250-400)		or ICRI N Surface Preparation Condition of ISO 850	1-1 Swedish Std.
Per Task Group In coat of an identifi required at 8.0 to 2	ed, contrasting color 12.0 mils (200 - 300 mi	primer application, a stri of the finish coat may icrons) dft, followed by t	White Metal Near White Metal Commercial Blast Brush-Off Blast Pe Hand Tool Cleaning F be Power Tool Cleaning F	Surface         BS7079: Sa 3 Sa 2.5 Sa 2           Sa 42.5 Sa 4         Sa 2.5 Sa 1           Susted         C St 2           Pitted & Rusted         D St 2           Rusted         C St 3           Pitted & Rusted         D St 3	A1         SiS055900         SSPC         NACE           Sa 3         SP 5         1           Sa 2.5         SP 10         2           Sa 2.5         SP 6         3           Sa 1         SP 7         4           C St 2         SP 2         -           D St 2         SP 2         -           C St 3         SP 3         -           D St 3         SP 3         -
finish coat at 10.0	to 12.0 mils (250 - 30	0 microns) dft.		Τιντιν	G
The systems lister	d abovo aro roprocont	ative of the product's us	Do not tint.		
other systems ma		alive of the product's us		PPLICATION CO	ONDITIONS
			Temperature: air, surface:	50°F (10° maximum At least 5	°C) minimum, 110°F (43°C) °F (2.8°C) above dew point
			Material should be Relative humidity	77°F (25°C) to 100°F	F (38°C) for optimal application.
				· · · · · · · · · · · · · · · · · · ·	detailed application information.
				RDERING INFO	
			Packaging: Part A: Part B: Weight:		15.1L) container 3.78L) container .2 lb/gal; 1.44 Kg/L, mixed
				SAFETY PREC	AUTIONS
			Refer to the MSDS sl Published technical o Contact your Sherwin instructions.		e subject to change without notice. ve for additional technical data and
	Disclaime	R		WARRAN	ΙΤΥ
based upon tests cond Such information and r pertain to the product	ecommendations set forth ducted by or on behalf of T ecommendations set forth I offered at the time of publ	in this Product Data Sheet he Sherwin-Williams Compa rerein are subject to change a ication. Consult your Sherv t Product Data Information a	ing defects in accord v Liability for products p and tive product or the rel vin- determined by Sherw and OF ANY KIND IS MA STATUTORY, BY OP	with applicable Sherwin- proven defective, if any, is fund of the purchase pri vin-Williams. NO OTHE DE BY SHERWIN-WILL	r products to be free of manufactur- Williams quality control procedures. I limited to replacement of the defec- ce paid for the defective product as ER WARRANTY OR GUARANTEE IAMS, EXPRESSED OR IMPLIED, & OTHERWISE, INCLUDING MER- TICULAR PURPOSE.

Over Ever Ever Alter Ale					PRIMER CHNOLOGY
SHERWIN WILLIAMS.	<b>Marine</b> <b>Coatings</b>	Pa Pa	RT A RT A RT B RT B	B62H220 B62L220 B62V220 B62V221	Buff Blue OAP Fast Cure Hardener Standard Hardener
Revised: July 18	3. 2019 <b>API</b>	PLICATIO	N BULLE	TIN	TRM.37
Su	IRFACE PREPARATIONS	6	Application Conditions		
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. <b>Iron &amp; Steel (atmospheric service)</b> Minimum surface preparation is Commercial Blast Cleaning per SSPC-SP6/NACE 3 or SSPC-SP12/NACE No. 5. For surfaces prepared by SSPC SP6/NACE 3, first remove all oil and grease			Temperature: air, surface: Material should be	maximum At least 5	°C) minimum, 110°F (43°C) °F (2.8°C) above dew point F (38°C) for optimal application.
			Relative humidity	/: 85% max	imum
from surface by Sc formance, use Nea	olvent Cleaning per SSPC-SP1. ar White Metal Blast Cleaning p	For better per- er SSPC-SP10/	A	PPLICATION E	QUIPMENT
NACE 2. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2-3 mils / 50-75 microns). For sur- faces prepared by SSPC-SP12/NACE No. 5, all surfaces shall be cleaned in accordance with WJ-3/SC2. Preexisting profile should be approximately 2 mils (50 microns). Prime any bare steel the same day as it is cleaned or before flash rusting occurs.			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.		
<ul> <li>Iron &amp; Steel (immersion service)</li> <li>Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Near White Metal Blast Cleaning per SSPC-SP10/NACE 2, or SSPC-SP12/NACE No. 5.</li> <li>For SSPC-SP10 blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2-3 mils / 50-75 microns).</li> <li>For SSPC-SP12/NACE No. 5, all surfaces to be coated shall be cleaned in accordance with WJ-2/SC-2 standards (marine exterior hull only). Pre-existing profile should be approximately 2 mils (50 microns). Remove all weld spatter. Prime any bare steel the same day as it is cleaned or before flash rusting occurs.</li> <li>Concrete and Masonry</li> <li>For surface preparation, refer to SSPC-SP13/NACE 6, or ICRI No. 310.2R, CSP 2-3. 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.</li> <li>Follow the standard methods listed below when applicable: ASTM D4258 Standard Practice for Cleaning Concrete.</li> <li>ASTM D4258 Standard Practice for Etching Concrete.</li> <li>ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete.</li> <li>SSPC-SP 13/Nace 6 Surface Preparation of Concrete.</li> <li>ICRI No. 310.2R Concrete Surface Preparation.</li> <li>Concrete, Immersion Service:</li> <li>For surface preparation, refer to SSPC-SP13/NACE 6, Section 4.3.1 or 1.3.2 or ICRI No. 310.2R, CSP 2-3.</li> </ul>			Reduction       Not recommended         Clean Up       MEK (R6K10) or R7K104		
			B62V221, Stand Unit	2V220, Fast Cure H lard Hardener WIWA Mo	
			Hose Tip Pump heater s	4000 psi 3/8" ID 017"0 settings120°F - 1 ure at tip90°F - 95	50°F (49°C - 66°C)
				2V221, Standard H	
			Pressure Hose Tip Filter	68:1 Pum 6000 psi 3/8" ID 019"0 30 mesh	21"
			hose, flush equ	ipment at least or	less spray equipment and nce every hour and before h MEK, R6K10; or R7K104.
					e coating and repair only lyester or Natural Bristle
	Surface Preparation Standards	d.	Roller	For stripe	coating and repair only
Su White Metal Near White Metal Commercial Blast Brush-Off Blast	Inface         BS7079:A1         SIS055900           Sa         Sa         Sa           Sa         Sa	SSPC         NACE           SP 5         1           SP 10         2           SP 6         3           SP 7         4           SP 2         -           SP 3         -           SP 3         -	Cover	ation equipment is	not listed above, equivalent

COVER EARTH	Prote &					PRIMER CHNOLOGY
SHERWIN WILLIAMS	Mar Coat		P/ P/	art A art A art B art B	B62H220 B62L220 B62V220 B62V221	Buff Blue OAP Fast Cure Hardener Standard Hardener
Revised: July 18, 2019 APPLICATION BU					ETIN	TRM.37
App	LICATION	Proceduri	ES		Performan	ce Tips
Surface preparation	on must be co	ompleted as indi	cated.	Repair of Pit	tted Tank Bottoms	
<b>Mixing Instructions:</b> Mix contents of each component thoroughly using low speed power agitation. Make certain no pigment remains on the bottom or the sides of the can. Then combine four parts by volume of Part A with one part by volume of Part B. Thoroughly agitate the mixture with power agitation.				Extensive, deep pitting: Options: Option 1 Apply a full wet coat, by spray application, of Nova- Plate UHS Primer. Follow with rubber squeegee to work material into and fill the pitted areas. After recommended drying time, apply a full coat of Nova- Plate UHS at recommended film thickness.		
To ensure that no unmixed material remains on the sides or bottom of the cans after mixing, visually observe the container by pouring the material into a separate container.				Option 2	.Weld new steel plate:	s, or use puddle welds, as areas. Coat areas as recom-
Apply paint at the rate as indicated b	recommende elow:	ed film thickness	and spreading	failure in thes	se areas.	harp angles to prevent early
Recomm	ended Spre	ading Rate pe	r coat <u>:</u>	When using s of the gun to a	spray application, use a avoid holidays, bare area	50% overlap with each pass as, and pinholes. If necessary,
		Minimum	Maximum			
Wet mils (micron Dry mils (micron Total mils (micro ~Coverage sq ft Theoretical cover	is) ons) :/ <b>gal</b> (m²/L)	<ul> <li>6.0 (150)</li> <li>6.0 (150)</li> <li>6.0 (150)</li> <li>133 (3.2)</li> </ul>	12.0(300)12.0(300)12.0(300)262(6.4)	an application rosity of the s of application	n loss factor due to surfa surface, skill and technic , various surface irregi	ume solids and do not include ace profile, roughness or po- que of the applicator, method ularities, material lost during ic conditions, and excessive
(m²/L) @ 1 mil / 25	microns dft	<b>1568</b> (38.4)			of material is recommerance, and adhesion.	ended as this can affect film
	dule @ 8.0 @ 55°F/13°C	<u>mils wet (200</u> @ 77°F/25°C	<u>microns):</u> @ 100°F/38°C	1	reviously catalyzed mat	erial with new.
To touch:	9 hours	50% RH 3 hours	1-1/4 hours	Do not apply	the material beyond red	commended pot life.
To handle: To recoat:	24 hours	12 hours	4-1/4 hours	In order to av flush equipm extended dov	void blockage of airless ent at least once every wntime with MEK, R6K1	spray equipment and hose, hour and before periods of 0; or R7K104.
minimum: maximum: Cure to service:	24 hours 21 days 7 days	12 hours 21 days 5 days	4-1/4 hours 14 days 5 days	For Plural Co Hardener. Fo Standard Ha	mponent Airless applica or standard Airless Spra rdener	tion, use B62V220, Fast Cure y application, use B62V221,
Sweat-in-time:	50 minutes	25 minutes Not required	10 minutes	For Immersi with ASTM D	on Service: (if required 5162 for steel, or ASTN	) Holiday test in accordance I D4787 for concrete.
*Fast Cure Hardene		, ,		coating syste	em incorporating Opti-(	red equipment to inspect a Check OAP Technology can
With B62V221	@ 55°F/13°C 15 hours	@ 77°F/25°C <i>50% RH</i> 4 hours	@ 100°F/38°C 2 hours	Refer to Pro		for additional performance
To handle:	36 hours	14 hours	6 hours		cs and properties.	
To recoat:	00 h	44	0 -		DISCLAIN	
minimum: maximum: Cure to service: If maximum recoat ti	36 hours 21 days 7 days ime is exceede	14 hours 21 days 5 days d, abrade surface	6 hours 14 days 5 days <i>before recoating.</i>	based upon test Such information pertain to the pr Williams represe	ts conducted by or on behalf n and recommendations set for roduct offered at the time of p entative to obtain the most re	orth in this Product Data Sheet are of The Sherwin-Williams Company. rth herein are subject to change and oublication. Consult your Sherwin- cent Product Data Information and
Drying time is temperature, humidity, and film thickness dependent. Pot Life: 90 minutes 40 minutes 20 minutes				Application Bull	SAFETY PREC	AUTIONS
Note: Pot life will be shorter with higher temperatures and larger						
volume of material.       Refer to the MSDS sheet before use.         Sweat-in-time:       Not required         Published technical data and instructions are subject to change without no Contact your Sherwin-Williams representative for additional technical data instructions.						e subject to change without notice. e for additional technical data and
Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating					WARRAN	ΙΤΥ
def				defects in accor	rd with applicable Sherwin-V	products to be free of manufacturing villiams quality control procedures.
CLEAN OP INSTRUCTIONS fect				fective product of	or the refund of the purchase	is limited to replacement of the de- price paid for the defective product
tools immediately after use with MEK, R6K10; or R7K104. Follow manu- STATUTORY, BY OPERAT				Ś MADE BY SHERWIN-WILL	ER WARRANTY OR GUARANTEE IAMS, EXPRESSED OR IMPLIED, OTHERWISE, INCLUDING MER- FICULAR PURPOSE.	