SHERWIN WILLIAMS	Protect & Marin Coatin	ne		DIREC1 B66-200		L <sup>®</sup> 1300 LACRYLIC GLOSS SEMI-GLOSS
		Pro	орист Іі	NFORMATIO	N	4.04
Revised: June						1.31
PRODUCT DESCRIPTION         SHER-CRYL 1300 is a direct-to-metal, fast dry, high build waterborne acrylic coating. Designed to provide a high quality, fast throughput, fast return to service, economical one coat direct-to-metal finish while having no impact to VOC emissions. May be used direct to prepared substrates or over acrylic, epoxy, or zinc primers.         • Fast dry       • HAPS free			RECOMMENDED USES         For use over prepared:       • Galvanizing       • Aluminum         • Steel       • Galvanizing       • Aluminum         Examples:       • Structural Steel • Equipment       • Production Tanks         • Bridges       • Freight cars       • Tank cars         • Piping       • Skids       • Intermodal containers			
<ul> <li>Excellent color</li> <li>High build - one</li> </ul>	moisture resista and gloss retent e coat applicatior	ion า			ild to moderate servic	
PRC Finish:	DUCT CHAP	RACTERISTI Semi-gloss	CS		y, or zinc primers (mod	derate to severe service)
Color:		eep Base, Extra Tone Base (glos	White,	Substrate*: Steel	WANCE CHARAC	JIERISTICS
Volume Solids: Weight Solids: VOC:	36% ± 42% ±	2%, may vary b 2%, may vary b 2%, may vary b L ; 0.42 lb/gal	by color	Surface Preparation System Tested*: 1 ct. Sher-Cryl 130 *unless otherwise noted Test Name		CE 2
Wet mils: Dry mils: ~Coverage sq		Minimum 11.0 4.0 80	<u>r coat:</u> Maximum 20.0 7.0 140	Abrasion Resistance Accelerated	ASTM D4060, CS17 wheel, 1000 cycles, 1 kg load ASTM D4587,	193 mg loss
	sq ft/gal @ 1 mil dft ing Schedule @		@ 50% RH:	Weathering Adhesion	1,000 hours ASTM D3359	>75% gloss retention 5A, 5B
To touch: Tack free:	<b>@ 50°F</b> 25 minutes 30 minutes	<b>@ 77°F</b> 20 minutes 30 minutes	<b>@ 120°F</b> 15 minutes 15 minutes	Direct Impact Resistance	ASTM D4541 ASTM D2794	500 psi >160 in. lb. (direct and reverse)
To handle: To recoat:	45 minutes 45 minutes	45 minutes 45 minutes	30 minutes 30 minutes	Dry Heat Resistance	ASTM D2485	400°F
To cure: Good air mo	30 days ovement is necess ure, humidity, and	30 days sary for drying. D	30 days rying time	Humidity Resistance	ASTM D4585, 100°F, 1,000 hours	Passes
SEMI-GLOSS: [		-		Pencil Hardness Salt Fog	ASTM D3363 ASTM B117,	HB (1 day) ; F (7 days)
To touch:	<b>@ 50°F</b> 90 minutes	@ 77°F 25 minutes	@ <b>120°F</b> 10 minutes	Resistance	1,000 hours	Passes
Tack free: To handle: To recoat: To cure: Good air mo is temperat	105 minutes 120 minutes 120 minutes 30 days ovement is necess ure, humidity, and 36 month Store inde	25 minutes 45 minutes 30 days sary for drying. D film thickness de s, unopened pors at 40°F to 1	ependent.	<ul> <li>Sulfuric Acid (10%</li> <li>Phosphoric Acid (1</li> <li>Sodium Hydroxide</li> <li>Ammonium Hydro (10% &amp; Concentration</li> <li>Hydrochloric Acid</li> </ul>	ted) I	Excellent Excellent Excellent Excellent
Flash Point: Reducer*: *Typically not req Clean Up:	>200°F, F Water uired. Maximum Flush wit tended p	PMCC	water for ex- time. Follow	<ul> <li>Nitric Acid (10%)</li> <li>Isopropyl Alcohol .</li> <li>Potassium Hydrox</li> </ul>	ted) I ide (25%)	Excellent Excellent Good



Revised: June 7, 2019

### SHER-CRYL® 1300 **DIRECT-TO-METAL ACRYLIC**

**B66-2000 SERIES** B66-2050 SERIES

GLOSS **SEMI-GLOSS** 

### **PRODUCT INFORMATION**

1	.31	

Recommended Systems			SURFACE PREPARATION			
Steel	Dry Filr Direct-to-Metal:	n Thickness / ct. <u>Mils</u>	Surface must be clean, d dust, grease, dirt, loose adequate adhesion.			
	s. Sher-Cryl 1300 Direct-to-Metal Acrylic	4.0-7.0	Refer to product Applicat	ion Rullatin for de	tailed cur	faco propara
Steel	Enour Drimory		tion information.		stalleu Sull	iace prepara-
<b>5teel,</b> 1 ct.	Epoxy Primer: Macropoxy 646 Fast Cure Epoxy	5.0-10.0				
1 ct.	Sher-Cryl 1300 Direct-to-Metal Acrylic	4.0-7.0	Better performance achi	eved with SSPC-S	SP6	
Stool	Zinc Primer:		Minimum recommended		on:	
<b>3 teel,</b> 1 ct.	Zinc Friner. Zinc Clad III HS	3.0-5.0	Iron & Steel: SSPC-SP2		16	
1 ct.	Sher-Cryl 1300 Direct-to-Metal Acrylic	4.0-7.0	Aluminum & Galvanized	e Preparation Stand		
or		4.0-7.0	Condition	of ISO 8501-1		
1 ct.	Zinc Clad III HS	3.0-5.0	Surface White Metal	<b>BS7079:A1</b> Sa 3 Sa 2.5	SSPC SP 5 SP 10	NACE 1
1 ct.	Macropoxy 646 Fast Cure Epoxy	5.0-10.0	Near White Metal Commercial Blast	Sa 2.5 Sa 2	SP 10 SP 6	1 2 3 4
1 ct.	Sher-Cryl 1300 Direct-to-Metal Acrylic	4.0-7.0	Brush-Off Blast	Sa 1	SP 6 SP 7 SP 2	4
1 01.		4.0-7.0	Hand Tool Cleaning Rusted Pitted & R	C St 2 usted D St 2	SP 2 SP 2 SP 3	-
Alumi	num and Galvanized Metal, Direct-to-M	etal:	Power Tool Cleaning Rusted Pitted & R	C St 3 usted D St 3	SP 3 SP 3	2
1 ct.	Sher-Cryl 1300 Direct-to-Metal Acrylic	4.0-7.0		TINTING		
Alumi	num and Galvanized Metal, Epoxy Prim	ier:	Tinting with CCE:			
1 ct.	Macropoxy 646 Fast Cure Epoxy	2.0-4.0	Base	oz/gal	Streng	<u>ith</u>
1 ct.	Sher-Cryl 1300 Direct-to-Metal Acrylic	4.0-7.0	Ultradeep	8-12	100%	
	- ,		Extra White	0-4	100%	
			Deep Tone	4-8	100%	
			Applic	ATION COND	ITIONS	
			Temperature:	40°F minimum (air, surface, aı At least 5°F ab	nd materia	l)
			Relative humidity:	85% maximum		
			Refer to product Application	n Bulletin for detaile	d applicatio	on information.
			Order	RING INFORM	ATION	
			Packaging:	5 gallon pails, 275 gallon tote		drums,
			Weight:	9.0 ± 0.3 lbs/ga	al, may va	ry by color
			SAFE	TY PRECAUT	IONS	
		Refer to the MSDS sheet before	ore use.			
	ystems listed above are representative of t	he product's use,	Published technical data and Contact your Sherwin-William instructions.			
other systems may be appropriate.			WARRANTY			
<b>Disclaimer</b> 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.		The Sherwin-Williams Compar defects in accord with applica Liability for products proven di fective product or the refund o as determined by Sherwin-Will OF ANY KIND IS MADE BY S STATUTORY, BY OPERATIO CHANTABILITY AND FITNES	ble Sherwin-Williams efective, if any, is limit f the purchase price p iams. NO OTHER W HERWIN-WILLIAMS, N OF LAW OR OTHE	quality con ed to replace aid for the d ARRANTY O EXPRESSE RWISE, INC	trol procedures. ement of the de- efective product R GUARANTEE D OR IMPLIED, CLUDING MER-	



### SHER-CRYL® 1300 DIRECT-TO-METAL ACRYLIC

B66-2000 SERIES B66-2050 SERIES GLOSS SEMI-GLOSS

1.31

Revised: June 7, 2019

### **APPLICATION BULLETIN**

SURFACE PF	REPARATIONS
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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 and Steel:

White M Near W Comme Brush-C Hand To

Power 7

Remove all oils and grease from surface by Sovent Cleaning per SSPC-SP1. Only use emulsifying industrial detergents such as Sherwin-Williams Concentrated Pre-Paint Cleaner, SW General Purpose Cleaner, or equal, followed by clean water rinse. DO NOT USE HYDROCARBON CONTAINING SOLVENTS.

Minimum surface preparation is Hand Tool Cleaning per SSPC-SP2. For better performance, abrasive blast clean per SSPC-SP6/ NACE 3 (Commercial Blast Cleaning) or SSPC-SP10/NACE 2 (Near White Blast Cleaning) with a suitable abrasive to create a sharp angular profile of approximately 2.0 mil depth.

### Aluminum & Galvanized Metal:

Remove all oils and grease from surface by Sovent Cleaning per SSPC-SP1. Only use emulsifying industrial detergents such as Sherwin-Williams Concentrated Pre-Paint Cleaner, SW General Purpose Cleaner, or equal, followed by clean water rinse. DO NOT USE HYDROCARBON CONTAINING SOLVENTS.

Prepare surfaces per SSPC-SP16. For optimum ahesion, sweep blast or abrade smooth metals to create a surface profile.

Surface Preparation Standards				
	Condition of Surface	ISO 8501-1 BS7079:A1	SSPC	NACE
Vetal /hite Metal		Sa 3 Sa 2.5	SP 5 SP 10	1
ercial Blast Off Blast		Sa 2 Sa 1	SP 6 SP 7	34
ool Cleaning	Rusted Pitted & Rusted	C St 2 D St 2	SP 2 SP 2	-
Tool Cleaning	Rusted Pitted & Rusted	C St 3 D St 3	SP 3 SP 3	-

### Application Conditions

Temperature:

40°F minimum, 120°F maximum (air, surface, and material) At least 5°F 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\*.....Water

*Typically not required.	Maximum 5% by volume.
Clean Up	Flush with clean, warm water for
	extended periods of down time. Fol-
	low water flush with Butyl Cellosolve
	R6K25.

### **Airless Spray**

Pump1.0 gallon/minute, 3000 psi minimum
Pressure
Hose1/4" ID
Tip013"025"
Filter60 mesh
ReductionNot recommended

### **Conventional Spray**

Gun	Binks 95
Fluid Nozzle	66
Air Nozzle	63PB
Atomization Pressure	50 psi
Fluid Pressure	15-20 psi
Reduction	Not recommended

### Brush, small areas and touch-up only

Brush	Nylon / polyester
Reduction	Not recommended

### Roller, small areas and touch-up only

Cover1/4"	or 3/8" woven solvent resistant core
ReductionNot	recommended

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



Application Bulletin.

### SHER-CRYL® 1300 DIRECT-TO-METAL ACRYLIC

B66-2000 SERIES B66-2050 SERIES GLOSS SEMI-GLOSS

Revised: June 7, 2019 APPLICATION BULLETIN 1.31			
Application Procedures	Performance Tips		
Surface preparation must be completed as indicated. <b>Mixing Instructions:</b> Mix paint thoroughly to a uniform consistency with low speed power agitation prior to use.	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.		
Apply paint at the recommended film thickness and spreading rate as indicated below:	Spreading rates are calculated on volume solids and do not in- clude 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, overthinning, climatic conditions, and excessive film build.		
Recommended Spreading Rate per coat:MinimumMaximumWet mils:11.020.0Dry mils:4.07.0			
~Coverage sq ft/gal:     80     140       Theoretical coverage sq ft/gal @ 1 mil dft     561	Excessive reduction of material can affect film build, appear- ance, adhesion and performance.		
GLOSS: Drying Schedule @ 12.0 mils wet @ 50% RH:         @ 50°F       @ 77°F       @ 120°F         To touch:       25 minutes       20 minutes       15 minutes         Tack free:       30 minutes       30 minutes       15 minutes         To handle:       45 minutes       45 minutes       30 minutes         To recoat:       45 minutes       45 minutes       30 days         Good air movement is necessary for drying. Drying time is temperature, humidity, and film thickness dependent.       SEMI-GLOSS: Drying Schedule @ 12.0 mils wet @ 50% RH:         @ 50°F       @ 77°F       @ 120°F         To touch:       90 minutes       25 minutes         SEMI-GLOSS: Drying Schedule @ 12.0 mils wet @ 50% RH:       @ 50°F         @ 50°F       @ 77°F       @ 120°F         To touch:       90 minutes       25 minutes         To touch:       90 minutes       25 minutes         To handle:       120 minutes       45 minutes         To handle:       120 minutes       45 minutes         To coat:       120 minutes       45 minutes         To touch:       90 minutes       25 minutes       10 minutes         To coat:       120 minutes       45 minutes       20 minutes         To recoat:       120 minutes<	This material is extremely sensitive to hydrocarbon containing solvents. When cleaning the surface per SSPC-SP1, use only an emulsifying industrial detergent such as Sherwin-Williams Concentrated Prepaint Cleaner or SW General Purpose Cleaner or equal, followed by a water rinse. DO NOT USE HYDROCAR- BON CONTAINING SOLVENTS. 3M decals #3690 were tested at 2 hours at 77°F and 50% RH with excellent adhesion. Dry times are improved with good air movement.		
	SAFETY PRECAUTIONS		
	Refer to the MSDS sheet before use.		
CLEAN UP INSTRUCTIONS	Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.		
Flush with clean, warm water for extended periods of down time. Follow water flush with Butyl Cellosolve R6K25.	WARRANTY		
<b>Disclaimer</b> 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 Buildein	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.		

# SHERWIN-WILLIAMS 704376 11/22/21 410-796-3397 Order# 0123258

EXTERIOR SHER-CRYL 1300 DTM GLOSS

ARCHITECTURAL LATEX IFC 8112NP

4024 ENVIRO GREEN

# SHER-COLOR FORMULA

CCE\*COLORANT W1-White B1-Black Y3-Deep Gold

 0Z
 32
 64
 128

 22
 51

 20
 22
 1

 14
 54
 1

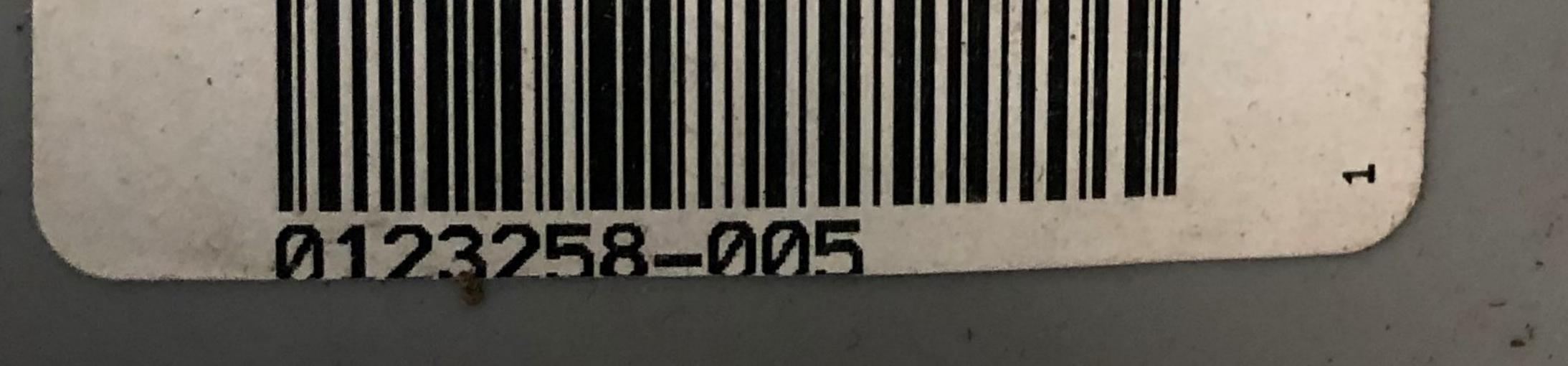
## FIVE GALLON B66T02014



### 650957905

# NOT RECOMMENDED FOR USE ON VINYL

Non Returnable Tinted Color CAUTION: To assure consistent color, always order enough paint to complete the job and intermix all containers of the same color before application. Mixed colors may vary slightly from color strip or color chip.



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