ZINC CLAD® 5 ORGANIC ZINC-RICH PRIMER

B69A45

Revised: May 10, 202		NFORMATION 6.05		
Prod	UCT DESCRIPTION	Recommended Uses		
 ZINC CLAD 5 is a one-package, organic, zinc-rich coating containing 90% by weight of zinc dust pigment in the dried film. Single protective coat in mild corrosive environments 90% zinc content in dry film Provides cathodic/sacrificial protection Exhibits "self-healing" properties when the film is damaged 		 For use over properly prepared blasted steel exposed to: Fresh water Salt water Brackish water Chemical fumes Topcoating recommended for maximum protection Excellent for field touch-up of damaged galvanized or zinc rich primers 		
Produc	t Characteristics	PERFORMANCE CHARACTERISTICS		
Finish: Color: Volume Solids: Weight Solids:	Flat Gray-green 41% ± 2% 81% ± 2%	 A tough, hard film which serves as a single protective coating ir mild corrosive environments. Provides cathodic protection to the steel. Insoluble zinc salts formed in the film make it more resistant to the passage of moisture. 		
VOC (calculated): Zinc Content in Dry Fil	<500 g/L; 4.17 lb/gal m:90% by weight	Simulates the protection of steel provided by galvanizing.Easy field use for touch-up work.		
Recommende Wet mils (microns) Dry mils (microns) ~Coverage sq ft/gal Theoretical coverage sq (m²/L) @ 1 mil / 25 micro NOTE: Brush or roll a achieve maximum film Drying Schedule @ 55% To touch: 4 h To recoat: 30 h To cure: 7 c Drying time is temperatu Shelf Life: Flash Point: Reducer: Claan Unit	Add Spreading Rate per coat: Minimum Maximum 7.5 188 10.0 250 3.0 75 4.0 100 (m²/L) 165 4.0 219 5.4 ft/gal 656 16.1 56 16.1 application may require multiple coats to thickness and uniformity of appearance. 76 77°F/25°C @ 100°F/38°C 50% RH sours 2-3 hours 30 minutes 1 hour 3 days 7 days 3 days re, humidity, and film thickness dependent. 24 months, unopened Store indoors at 40°F (4.5°C) to 100°F (38°C) 115°F (46°C) PMCC Not recommended Yulene P2K4 50K4 50K4 50K4 50K4	 Can be used untopcoated for immersion service. Provides performance comparable to products formulated to federal specifications: MIL-P-21035B Dry heat resistance: 300°F (149°C) 		

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Coatings

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PRODUCT INFORMATION

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RECOMMENDED SYSTEMS Dry Film Thickness / ct. Mils (Microns) Steel, zinc primer/finish, immersion or atmospheric: 3 0-4 0 (75-100)			Surface PREPARATION 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.		
Steel, u 1 ct. 1 ct. 1 ct. or 1 ct.	urethane topcoat, atmospheric Zinc Clad 5 Macropoxy 646 Sherthane 2K Urethane	c: 3.0-4.0 5.0-10.0 3.0-4.0	(75-100) (125-250) (75-100)	SurfaceBS7079:A1Sibitation SibilationWhite MetalSa 3Sa 3Sp5Near White MetalSa 2.5Sp 102Commercial BlastSa 2.5Sp 102Brush-Off BlastSa 1Sa 1Sa 2Hand Tool CleaningRustedC St 2Sp 2Power Tool CleaningRustedC St 3C St 3Pitted & RustedC St 3C St 3Sp 3Power Tool CleaningPitted & RustedD St 3D St 3StateSa 3Sp 3Sp 3StateSa 4St 3Sp 3Power Tool CleaningPitted & RustedD St 3D St 3StateSa 5St 3Sp 3StateSt 3Sp 3St 3StateSt 3Sp 3Sp 3StateSt 3Sp 3StateSt 3Sp 3StateSt 3Sp 3StateSt 3Sp 3StateSt 3Sp 3StateSt	
1 61.		5.0-4.0	(73-100)	Tinting	
Galvan 1 ct.	l izing: Zinc Clad 5	3.0-4.0	(75-100)	Do not tint.	
 NOTE: 1 ct. of DTM Wash Primer can be used as an intermediate coat under recommended topcoats to prevent pinholing. The systems listed above are representative of the product's use, other systems may be appropriate 			APPLICATION CONDITIONS Temperature: 35°F (1.6°C) minimum, 95°F (35°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew poir 85% maximum Relative humidity: 85% maximum Refer to product Application Bulletin for detailed application inf mation.		
	, , , , , , , , , , , , , , , , , , ,			ORDERING INFORMATION	
				Packaging: 1 gallon (3.78L) containers	
				Weight: 21.3 ± 0.2 lb/gal ; 2.55 Kg/L	
				SAFETY PRECAUTIONS Refer to the SDS sheet before use.	
				Published technical data and instructions are subject to change without noti Contact your Sherwin-Williams representative for additional technical data a instructions.	
				WARRANTY	
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.			The Sherwin-Williams Company warrants our products to be free of manufact ing defects in accord with applicable Sherwin-Williams quality control procedur Liability for products proven defective, if any, is limited to replacement of the def tive product or the refund of the purchase price paid for the defective product determined by Sherwin-Williams. NO OTHER WARRANTY OR GUARANT OF ANY KIND IS MADE BY SHERWIN-WILLIAMS, EXPRESSED OR IMPLII STATUTORY, BY OPERATION OF LAW OR OTHERWISE, INCLUDING MI CHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.		



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APPLICATION BULLETIN

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SURFACE PREPARATIONS

Temperature:

35°F (1.6°C) minimum, 95°F (35°C) maximum (air, surface, and material) At least 5°F (2.8°C) above dew point

Relative humidity:

85% maximum

APPLICATION EQUIPMENT

APPLICATION CONDITIONS

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	Not recommended

Clean UpXylene, R2K4

Airless Spray

(Use Teflon packings and continuous agitation)

Pressure	2000 psi
Hose	3/8" ID
Тір	0.015"
Filter	None

Conventional Spray

continuous agitation requ	ired)
Gun	Binks 95
Fluid Nozzle	68
Air Nozzle	68P
Atomization Pressure	50 psi
Fluid Pressure	10 - 12 ps

Keep pressure pot at level of applicator to avoid blocking of fluid line due to weight of material. Blow back coating in fluid line at intermittent shutdowns, but continue agitation at pressure pot.

Brush

Brush.....Small areas only; natural bristle

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

Surface must be clean, dry, and in sound condition. Remove a	II
oil, dust, grease, dirt, loose rust, and other foreign material to	0
ensure adequate adhesion.	

Zinc rich coatings require direct contact between the zinc pigment in the coating and the metal substrate for optimum performance.

Iron & Steel (atmospheric service)

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.

Iron & Steel (immersion service)

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. Blast clean all surfaces using a sharp, angular abrasive for optimum surface profile (2 mils / 50 microns). Remove all weld spatter and round all sharp edges by grinding. Prime any bare steel the same day as it is cleaned or before flash rusting occurs.

Galvanized Steel

Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1 (recommended solvent is VM&P Naphtha). 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.

Weathered Zinc-Rich Primer:

Remove zinc salts by either high pressure water washing and scrubbing with stiff bristle brush or sweep blast followed by water flush. Allow to dry.

Note: If blast cleaning with steel media is used, an appropriate amount of steel grit blast media may be incorporated into the work mix to render a dense, angular 1.5-2.0 mil (38-50 micron) surface profile. This method may result in improved adhesion and performance.

Surface Preparation Standards					
	Condition of Surface	ISO 8501-1 BS7079:A1	Swedish Std. SIS055900	SSPC	NACE
White Metal Near White Metal Commercial Blast Brush-Off Blast		Sa 3 Sa 2.5 Sa 2 Sa 1	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	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	-

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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.		
Mixing Instructions: Mix paint thoroughly with low speed power agitation before 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.		
Continuous agitation required during application.	Spreading rates are calculated on volume solids and do not include		
Pour through a 30 to 60 mesh screen before use.	an application loss factor due to surface profile, roughness or po- rosity of the surface, skill and technique of the applicator, method		
Apply paint at the recommended film thickness and spreading rate as indicated below:	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 performance.		
Wet mils (microns) 7.5 188 10.0 250 Dry mils (microns) 3.0 75 4.0 100 ~Coverage sq ft/gal (m²/L) 165 4.0 219 5.4 Theoretical coverage sq ft/gal (m²/L) 656 16.1	In order to avoid blockage of spray equipment, clean equipment before use or before periods of extended downtime with Xylene, R2K4.		
NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.	Keep pressure pot at level of applicator to avoid blocking of f line due to weight of material. Blow back coating in fluid line intermittent shutdowns, but continue agitation at pressure pot		
Drying Schedule @ 10.0 mils wet (250 microns):			
@ 55°F/13°C@ 77°F/25°C@ 100°F/38°C50% RHTo touch:4 hours2-3 hours30 minutesTo recoat:30 hours24 hours1 hourTo cure:7 days7 days3 daysDrying time is temperature, humidity, and film thickness dependent.Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance.	cracking.		
	Refer to Product Information sheet for additional performance characteristics and properties.		
	Refer to the SDS 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		
Clean spills and spatters immediately with Xylene, R2K4. Clean	instructions.		
tools immediately after use with Xylene, R2K4. Follow manufac- turer'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 quality 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.		

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