

1.23 PRO-CRYL[®] UNIVERSAL PRIMER

B66-310 SERIES

Marine Coatings

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PRODUCT INFORMATION Revised 8/05 **PRODUCT DESCRIPTION RECOMMENDED USES** For use over prepared steel in industrial environments. PRO-CRYL UNIVERSAL PRIMER is an advanced technology, Interior and exterior self cross-linking acrylic primer. It is rust inhibitive and de-Barrier coating signed for both construction and maintenance applications. It Shop or field application can be used as a primer under water-based or solvent-based As a substitute for solvent based, universal primers high performance topcoats. Can be used as a dryfall coating under certain environmental conditions (see Application Bulletin) • Rust inhibitive Can be used in a variety of applications, including: · Flash rust / early rust resistant Railings Storage tank exteriors Machinery Bar joists VOC compliant Piping Rail cars Structural steel • • Single component Steel decking · Early moisture resistant Marine vessels · Fast drv Suitable for use in USDA inspected facilities Conforms to AWWA D102-03 OCS #3 · Low temperature application Acceptable for use in high performance architectural applications. **Performance Characteristics PRODUCT CHARACTERISTICS** Finish: Low sheen System Tested: (unless otherwise indicated) Substrate: Steel Color: Off White, Gray, Red Oxide Surface Preparation: SSPC-SP10 Pro-Cryl Universal Primer @ 3.0 mils dft 1 ct. Volume Solids: Sher-Cryl High Performance Acrylic @ 3 mils dft 39% ± 2% 1 ct. Weight Solids: 53% ± 2% Adhesion: Method: ASTM D4541 VOC (EPA Method 24): Unreduced: <100g/L; 1.25 lb/gal Result: 500 psi **Corrosion Weathering: Recommended Spreading Rate per coat:** ASTM D5894, 10 cycles, 3360 hours Method: Wet mils: 5.0 - 10.0 Result: Passes 2.0 - 4.0 Dry mils: **Direct Impact Resistance:** Coverage: 156 - 312 sq ft/gal approximate Method: ASTM D2794 >140 in. lbs. Result: NOTE: Brush or roll application may require multiple coats to achieve **Dry Heat Resistance:** maximum film thickness and uniformity of appearance. Method: **ASTM D2485** Result: 200°F Drying Schedule @ 6.0 mils wet @ 50% RH: Flexibility: @ 40°F @ 77°F @ 120°F Method: ASTM D522, 180° bend, 1/4" mandrel 40 minutes To touch: 2 hours 20 minutes Result: Passes Tack free: 8 hours 2 hours 1 hour **Moisture Condensation Resistance:** To recoat: 16 hours 4 hours 2 hours Method: ASTM D4585, 100°F, 1250 hours To cure: 45 days 30 days 14 days Result: Passes **Pencil Hardness:** Drying time is temperature, humidity, and film thickness dependent. Method: ASTM D3363 Result: Н Shelf Life: 36 months, unopened Salt Fog Resistance: Store indoors at 40°F to 100°F. ASTM B117, 1250 hours Method: Result: Passes Flash Point: >200°F, Seta Flash Provides performance comparable to products formulated to Reducer/Clean Up: Water federal specification: AA50557 and Paint Specification: SSPC-

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PRODUCT INFORMATION		
RECOMMENDED SYSTEMS	SURFACE PREPARATION	
Steel, waterborne topcoat: 1 ct. Pro-Cryl Universal Primer @ 2.0 - 4.0 mils dft 1-2 cts. Sher-Cryl High Performance Acrylic @ 2-4 mils dft/ct	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.	
or DTM Acrylic Coating @ 2.5 - 4.0 mils dft/ct or Metalatex Semi-Gloss, @ 1.5 - 4.0 mils dft/ct or Centurion WB Urethane @ 2.0 - 3.0 mils dft/ct or Waterbased Tile Clad Epoxy @ 2.5 - 4.0 mils dft/ct or WB Industrial Enamel @ 1.5 - 3.0 mils dft/ct	Do not use hydrocarbon solvents for cleaning. Refer to product Application Bulletin for detailed surface preparation	
Steel, solvent borne topcoat:1 ct.Pro-Cryl Universal Primer @ 2.0 - 4.0 mils dft1-2 cts.Sherthane 2K Urethane @ 2.0 - 4.0 mils dft/ctorAcrolon 218 HS Polyurethane @ 3.0 - 6.0 mils dft/ctorTile-Clad High Solids @ 2.5 - 4.0 mils dft/ct	Minimum recommended surface preparation: Iron & Steel: SSPC-SP2 Aluminum: SSPC-SP1 Galvanizing: SSPC-SP1	
Steel:	TINTING	
 Pro-Cryl Universal Primer @ 2.0 - 4.0 mils dft Sher-Cryl High Performance Acrylic @ 2 - 4 mils dft/ct 	Do not tint.	
Steel:	APPLICATION CONDITIONS	
 Clad VI @ 2.0 - 3.0 mils dft Pro-Cryl Universal Primer @ 2.0 - 4.0 mils dft Sher-Cryl High Performance Acrylic @ 2-4 mils dft/ct 	Temperature: 40°F minimum, 120°F maximum (air, surface, and material) At least 5°F above dew point	
Steel / Aluminum / Galvanized: 1 ct. Pro-Cryl Universal Primer @ 2.0 - 4.0 mils dft Acceptable topcoats for: Light Service: 1-2 cts. 1-2 cts. Metalatex Semi-Gloss, @ 1.5 - 4.0 mils dft/ct or Industrial Enamel HS @ 2.0 - 4.0 mils dft/ct	Relative humidity: 85% maximum Refer to product Application Bulletin for detailed application information.	
	ORDERING INFORMATION	
or Industrial Urethane Alkyd @ 2.0-4.0 mils dft/ct <u>Moderate Service:</u> 1-2 cts. Sher-Cryl High Performance Acrylic @ 2-4 mils dft/ct or DTM Acrylic Coating @ 2.5 - 4.0 mils dft/ct	Packaging:1 and 5 gallon containersWeight per gallon:10.79 ± 0.2 lb	
or Steel-Master 9500 @ 2.0 - 3.0 mils dt/ct or Hydrogloss @ 2.0-4.0 mils dt/ct	SAFETY PRECAUTIONS	
Severe Service1-2 cts.Waterbased Tile Clad Epoxy @ 2.5 - 4.0 mils dft/ctorCenturion WB Urethane @ 2.0 - 3.0 mils dft/ctorPoly-Lon 1900 Polyurethane @ 2.0 - 3.0 mils dft/ctorHi-Solids Polyurethane @ 3.0 - 4.0 mils dft/ctorAcrolon 218 HS @ 3.0 - 6.0 mils dft/ct	Refer to the MSDS sheet before use. Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.	
The systems listed above are representative of the products use, other systems may be appropriate.		
DISCLAIMER	WARRANTY	
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APPLICATION BULLETIN Revised 8/05		
SURFACE PREPARATION		TION CONDITIONS
Surface must be dry and in sound condition. Remove oil, dust, dirt, loose rust, peeling paint and other contaminants to ensure adequate adhesion.	Temperature:	40°F minimum, 120°F maximum (air, surface, and material) At least 5°F above dew point
Do not use hydrocarbon solvents for cleaning.	Relative humidity:	85% maximum
Iron and Steel: Minimum surface preparation is Hand Tool Cleaning per SSPC- SP2. Remove all oil and grease from the surface by Steam Cleaning per SSPC-SP1. For better performance, use Com- mercial Blast Cleaning per SSPC-SP6.		
	The following is a guide. Changes in pressures and tip sizes	
Aluminum: Remove all oil, grease, dirt, oxide and other foreign material by Steam Cleaning per SSPC-SP1.	may be needed for proper spray equipment before us must be compliant with e patible with the existing en	spray characteristics. Always purge se with listed reducer. Any reduction existing VOC regulations and com- nvironmental and application condi-
Galvanizing The surface should be weathered for 6 months prior to paint- ing. Remove all oil and grease by Steam Cleaning per SSPC- SP1. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2.	tions. Reducer/Clean Up:	. Water
Previously Painted Surfaces: If in sound condition, clean the surface of all foreign material. Smooth, hard or glossy coatings and surfaces should be dulled by abrading the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, or if this products attacks the previous finish, removal of the previ- ous coating may be necessary. If paint is peeling or badly weath- ered, clean surface to sound substrate and treat as a new surface as above.	Pressure Hose Tip Filter Reduction Conventional Spray Gun Fluid Nozzle Air Nozzle Atomization Pressure Fluid Pressure Reduction	. 2000 psi . 1/4" ID 015"019" . 60 mesh . Not recommended . Binks 95 . 66 . 63PB . 60 psi . 25 psi . As needed up to 5% by volume
	Brush Brush Reduction Roller Cover Reduction If specific application equ lent equipment may be s	. Nylon/Polyester . Not recommended . 3/8" woven with phenolic core . As needed up to 5% by volume ipment is not listed above, equiva- ubstituted.



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APPLICATION BULLETIN		
APPLICATION PROCEDURES	Performance Tips	
Surface preparation must be completed as indicated.	Stripe coat all crevices, welds, and sharp edges to protect against early failure in these areas.	
Mixing Instructions: Mix paint thoroughly by boxing and stir- ring 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	
ing rate as indicated below:	Spreading rates are calculated on volume solids and do not	
Recommended Spreading Rate per coat: Wet mils: 5.0 - 10.0	include an application loss factor due to surface profile, rough- ness or porosity of the surface, skill and technique of the ap- plicator, mothed of application, various surface, irregularities	
Coverage: 2.0 - 4.0 Coverage: 156 - 312 sq ft/gal approximate	material lost during mixing, spillage, overthinning, climatic con- ditions, and excessive film build.	
NOTE : Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.	Excessive reduction of material can affect film build, appear- ance, and adhesion.	
Drying Schedule @ 6.0 mils wet @ 50% RH: @ 40°F @ 77°F @ 120°F	Do not use hydrocarbon solvents for cleaning.	
To touch:2 hours40 minutes20 minutesTack free:8 hours2 hours1 hourTo recoat:16 hours4 hours2 hoursTo cure:45 days30 days14 days	Refer to Product Information sheet for additional performance characteristics and properties.	
Drying time is temperature, humidity, and film thickness dependent. Application of coating above maximum or below minimum rec- ommended spreading rate may adversely affect coating per- formance.	Pro-Cryl can be used as a dryfall coating in certain environ- mental conditions. Test product before each application. Test by spraying 15-25 feet toward paint container. All material should readily wipe clean. Temperature and humidity will affect ability to dryfall. Hot surface will cause overspray to bond to surface. Always clean overspray immediately from hot surfaces.	
CLEAN UP INSTRUCTIONS	SAFETY PRECAUTIONS	
Clean spills and spatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with Mineral Spirits to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using Mineral Spirits.	Refer to the MSDS sheet before use. Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams rep- resentative for additional technical data and instructions.	
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