



PRO INDUSTRIAL™

113.05
I&M 1.23
PRO-CRYL®
UNIVERSAL PRIMER
B66-310 SERIES

CHARACTERISTICS

Pro Industrial Pro-Cryl Universal Primer is an advanced technology, self cross-linking acrylic primer. It is rust inhibitive and designed for both construction and maintenance applications. It can be used as a primer under water-based or solvent-based high performance top-coats.

- Rust inhibitive
- Flash rust / early rust resistant
- VOC compliant
- Single component
- Early moisture resistant
- Fast dry
- Low temperature application
- Corrosion resistant
- Interior and exterior use
- Suitable for use in USDA inspected facilities

Color: Off White, Gray, Red Oxide

Recommended Spread Rate per coat:

Wet mils: 5.0 - 10.0
Dry mils: 2.0 - 4.0
Coverage: 156 - 312 sq ft/gal
approximate

NOTE: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Schedule @ 6.0 mils wet @ 50% RH:

	40°F	77°F	120°F
To touch:	2 hrs	40 min	20 min
Tack free:	8 hrs	2 hrs	1 hr
To recoat:	16 hrs	4 hrs	2 hrs
To cure:	45 days	30 days	14 days

Drying time is temperature, humidity, and film thickness dependent.

Finish: Low sheen

Flash Point: >200°F, Seta Flash

Shelf Life: 36 months, unopened
Store indoors at 40°F to 100°F.

Tinting: Do not tint
B66W310 (may vary by color)

VOC (EPA Method 24): Unreduced:
<100g/L; <0.83 lb/gal

Volume Solids: 39% ± 2%

Weight Solids: 53% ± 2%

Weight per Gallon: 10.8 lb

SPECIFICATIONS

Steel, waterborne topcoat:

- 1 ct. Pro Industrial Pro-Cryl Universal Primer
- 1-2 cts. Pro Industrial 0 VOC Acrylic or Sher-Cryl HPA or Pro Industrial Multi-Surface Acrylic
- DTM Acrylic Coating
- or Metalatex Semi-Gloss
- or Pro Industrial Hi-Bild Waterbased Epoxy
- or WB Industrial Enamel

Steel, solvent borne topcoat:

- 1 ct. Pro Industrial Pro-Cryl Universal Primer
- 1-2 cts. Pro Industrial High Performance Epoxy
- or Sherthane 2K Urethane
- or Acrolon 218 HS Polyurethane
- or Tile-Clad High Solids

Steel / Aluminum / Galvanized:

- 1 ct. Pro Industrial Pro-Cryl Universal Primer

Acceptable topcoats for:

Light Service:

- 1-2 cts. Metalatex Semi-Gloss
- or Pro Industrial Industrial Enamel 100
- or Industrial Urethane Alkyd

Moderate Service:

- 1-2 cts. Pro Industrial 0 VOC Acrylic
- or Sher-Cryl HPA
- or DTM Acrylic Coating
- or Steel-Master 9500
- or Hydrogloss

Severe Service

- 1-2 cts. Pro Industrial Hi-Bild Waterbased Epoxy
- or Poly-Lon HP Polyurethane
- or Hi-Solids Polyurethane
- or Waterbased Acrolon 100

System Tested: (unless otherwise indicated)

- Substrate: Steel
Surface Preparation: SSPC-SP10
- 1 ct. Pro Industrial Pro-Cryl Universal Primer
 - 1 ct. Sher-Cryl High Performance Acrylic

As of 09/22/08, Complies with:

	Yes	LEED® Clv2.0	Yes
OTC	Yes	LEED® NCv2.2	Yes
SCAQMD	Yes	LEED® CSv2.0	Yes
CARB	Yes	LEED® H	Yes
MPI Spec #	No		
NAHB	Yes		

Adhesion:

Method: ASTM D4541
Result: 500 psi

Corrosion Weathering:

Method: ASTM D5894, 10 cycles, 3360 hours
Result: Passes

Direct Impact Resistance:

Method: ASTM D2794
Result: >140 in. lbs.

Dry Heat Resistance:

Method: ASTM D2485
Result: 200°F

Flexibility:

Method: ASTM D522, 180° bend, 1/4" mandrel
Result: Passes

Moisture Condensation Resistance:

Method: ASTM D4585, 100°F, 1250 hours
Result: Passes

Pencil Hardness:

Method: ASTM D3363
Result: H

Salt Fog Resistance:

Method: ASTM B117, 1250 hours
Result: Passes

Provides performance comparable to products formulated to federal specification: AA50557 and Paint Specification: SSPC-Paint 23.

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<u>SURFACE PREPARATION</u>	<u>CLEANUP INFORMATION</u>	<u>APPLICATION</u>																														
<p>Surface must be dry and in sound condition. Remove oil, dust, dirt, loose rust, peeling paint and other contaminants to ensure adequate adhesion.</p> <p>Do not use hydrocarbon solvents for cleaning.</p> <p>Iron and Steel: Minimum surface preparation is Hand Tool Cleaning per SSPC-SP2. Remove all oil and grease from the surface per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6.</p> <p>Aluminum: Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1.</p> <p>Galvanizing The surface should be weathered for 6 months prior to painting. Remove all oil and grease per SSPC-SP1. Rusty galvanizing requires a minimum of Hand Tool Cleaning per SSPC-SP2.</p> <p>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 previous coating may be necessary. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above.</p>	<p>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.</p>	<p>Refer to the MSDS sheet before use</p> <p>Temperature: 40°F minimum 120°F maximum (air, surface, and material) At least 5°F above dew point</p> <p>Relative humidity: 85% maximum</p> <p>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 compatible with the existing environmental and application conditions.</p> <p>Reducer/Clean Up: Water</p> <p>Airless Spray</p> <table border="0"> <tr><td>Pressure</td><td>2000 psi</td></tr> <tr><td>Hose</td><td>1/4" ID</td></tr> <tr><td>Tip</td><td>.015" - .019"</td></tr> <tr><td>Filter</td><td>60 mesh</td></tr> <tr><td>Reduction</td><td>Not recommended</td></tr> </table> <p>Conventional Spray</p> <table border="0"> <tr><td>Gun</td><td>Binks 95</td></tr> <tr><td>Fluid Nozzle</td><td>66</td></tr> <tr><td>Air Nozzle</td><td>63PB</td></tr> <tr><td>Atomization Pressure</td><td>60 psi</td></tr> <tr><td>Fluid Pressure</td><td>25 psi</td></tr> <tr><td>Reduction</td><td>As needed up to 5% by volume</td></tr> </table> <p>Brush</p> <table border="0"> <tr><td>Brush</td><td>Nylon/Polyester</td></tr> <tr><td>Reduction</td><td>Not recommended</td></tr> </table> <p>Roller</p> <table border="0"> <tr><td>Cover</td><td>3/8" woven with phenolic core</td></tr> <tr><td>Reduction</td><td>As needed up to 5% by volume</td></tr> </table> <p>If specific application equipment is not listed above, equivalent equipment may be substituted.</p>	Pressure	2000 psi	Hose	1/4" ID	Tip	.015" - .019"	Filter	60 mesh	Reduction	Not recommended	Gun	Binks 95	Fluid Nozzle	66	Air Nozzle	63PB	Atomization Pressure	60 psi	Fluid Pressure	25 psi	Reduction	As needed up to 5% by volume	Brush	Nylon/Polyester	Reduction	Not recommended	Cover	3/8" woven with phenolic core	Reduction	As needed up to 5% by volume
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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.