CHARACTERISTICS

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

- Rust inhibitive, corrosion resistant
- Single component
- Early moisture resistant
- Fast dry
- Lower temperature application 40°F
- Interior and exterior use
- Suitable for use in USDA inspected facilities

For use on properly prepared:
- Steel, Galvanized & Aluminum
- Wood

Color: Off White

Recommended Spread Rate per coat:
- Wet mils: 5.0 - 10.0
- Dry mils: 1.9 - 3.8
- Coverage: 160 - 320 sq ft/gal

Approximate spreading rates are calculated on volume solids and do not include any application loss. Note: Brush or roll application may require multiple coats to achieve maximum film thickness and uniformity of appearance.

Drying Time @ 6.0 mils wet 50% RH:

<table>
<thead>
<tr>
<th>Temperature</th>
<th>To touch</th>
<th>Tack free</th>
<th>To recoat</th>
</tr>
</thead>
<tbody>
<tr>
<td>40°F</td>
<td>2 hrs</td>
<td>8 hrs</td>
<td>16 hrs</td>
</tr>
<tr>
<td>77°F</td>
<td>40 min</td>
<td>2 hrs</td>
<td>4 hrs</td>
</tr>
<tr>
<td>120°F</td>
<td>20 min</td>
<td>1 hr</td>
<td>2 hrs</td>
</tr>
</tbody>
</table>

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

Finish: Low sheen

Flash Point: N/A

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

Tinting: DO NOT TINT

Off White B66W01310 (may vary by color)

VOC (less exempt solvents):
- <50 g/L - 0.42 lb/gal

As per CFR 59.406 and SOR/2009-264, s.12

Volume Solids: 38% ± 2%
Weight Solids: 49% ± 2%
Weight per Gallon: 10.09 lb

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RECOMMENDED SYSTEMS

Water Based Topcoat:
- 1-2 cts. Pro Industrial Acrylic Coating
- 1 cts. Pro Industrial Acrylic Dryfall
- 1 ct. Pro Industrial DTM Acrylic
- 1 ct. Pro Industrial Multi-Surface Acrylic
- 1 ct. Pro Industrial Pre-Catalyzed Epoxy
- 1 ct. Pro Industrial Water Based Acrolon 100
- 1 ct. Pro Industrial Water Base Alkyd Urethane
- 1 ct. Pro Industrial Water Based Catalyzed Epoxy
- 1 ct. Sherwin-Williams Architectural Coatings

Solvent Based Topcoat:
- 1-2 cts. Pro Industrial High Performance Epoxy
- 1 ct. Pro Industrial Urethane Alkyd

The systems listed above are representative of the product's use, other systems may be appropriate.

System Tested: (unless otherwise indicated)

- Substrate: Steel
- Surface Preparation: SSPC-SP10
- 1 ct. Pro Industrial Pro-Cryl Universal Off White Primer
- 1 ct. Pro Industrial Acrylic Coating

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: B

Salt Fog Resistance:
- Method: ASTM B117, 1250 hours
- Result: Passes


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4/2017 www.sherwin-williams.com continued on back
**SURFACE PREPARATION**

**WARNING!** Removal of old paint by sanding, scraping or other means may generate dust or fumes that contain lead. Exposure to lead dust or fumes may cause brain damage or other adverse health effects, especially in children or pregnant women. Controlling exposure to lead or other hazardous substances requires the use of proper protective equipment, such as a properly fitted respirator (NIOSH approved) and proper containment and cleanup. For more information, call the National Lead Information Center at 1-800-424-LEAD (in US) or contact your local health authority.

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.

_Do not use hydrocarbon solvents for cleaning._

**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. Self priming.

**Aluminum** - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1. Self priming.

**Galvanizing** - Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. 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-SP16 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. Self priming.

**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 abrasion of the surface. Apply a test area, allowing paint to dry one week before testing adhesion. If adhesion is poor, additional abrasion of the surface and/or removal of the previous coating may be necessary. Retest surface for adhesion. If paint is peeling or badly weathered, clean surface to sound substrate and treat as a new surface as above. Recognize that any surface preparation short of total removal of the old coating may compromise the service life of the system.

**Wood** - Surface must be clean, dry and sound. Prime with recommended primer. No painting should be done immediately after a rain or during foggy weather. Knots and pitch streaks must be scraped, sanded and spot primed before full coat of primer is applied. All nail holes or small openings must be properly caulked.

**APPLICATION PROCEDURES**

Apply paint at the recommended film thickness and spreading rate as indicated on front page. Application of coating below minimum recommended spreading rate will adversely affect coating performance.

**SAFETY PRECAUTIONS**

Refer to the SDS sheets before use. _FOR PROFESSIONAL USE ONLY_

Published technical data and instructions are subject to change without notice. Contact your Sherwin-Williams representative for additional technical data and instructions.

**PERFORMANCE TIPS**

Stripe coat crevices, welds, and sharp angles to prevent early failure in these areas. For best results on rusty surfaces, always apply first coat by brush.

No painting should be done immediately after a rain or during foggy weather. 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.

For optimal performance, this primer should be topcoated. For exterior exposure, this primer should be topcoated within 14 days. If 14 days is exceeded remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Finish with appropriate topcoat.

**APPLICATION**

Refer to the SDS before using

**Temperature:** 40°F minimum

120°F maximum

(air, surface, and material)

At least 5°F above dew point

**Relative humidity:** 85% maximum

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.

**Reducer:** Water

**Airless Spray**

Pressure .................. 2000 psi

Hose ........................................ 1/4" ID

Tip .................................... .015" - .019"

Filter .................. 60 mesh

Reduction ............... Not recommended

**Conventional Spray**

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

**Roller** .................. 3/8" woven

Reduction as needed up to 5% by volume

If specific application equipment is listed above, equivalent equipment may be substituted.

**CLEANUP INFORMATION**

Clean spills and splatters immediately with soap and warm water. Clean hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

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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 or visit www.paintdocs.com to obtain the most current version of the PDS and/or an SDS.