

Pro Industrial™**Sher-Cryl™ High Performance Acrylic**

B66-1300 Series Gloss, B66-1350 Series Semi-Gloss

**SHERWIN
WILLIAMS.****CHARACTERISTICS**

Pro Industrial Sher-Cryl HPA is a higher performing ambient cured, one component acrylic coating with excellent performance properties.

Features:

- Chemical Resistant
- Outstanding humidity resistance
- Outstanding application characteristics
- Flash rust-early rust resistant
- Fast Dry
- Suitable for use in USDA inspected facilities

For use on properly prepared: Steel, Galvanized & Aluminum, Concrete & Masonry, Wood, Previously Painted, Zinc Rich Primers

Recommended for use in: Buildings & Warehouses, Equipment & Machinery, Storage Tanks, Piping, Structural Steel, Manufacturing Facilities, New Construction, Interior or Exterior

Finish: 35-45 @ 60° Semi-Gloss
80°+ @ 60° Gloss

Colors: Most Colors, Safety Colors

Recommended Spreading Rate per coat:

(Extra White B66W01311 (may vary by color))

Wet mils: 6.0-10.0
Dry mils: 2.0-3.3
Coverage: 160-264 sq. ft. per gallon
Theoretical Coverage: 529 sq. ft. per gallon @ 1 mil dry

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 Schedule @ 7.0 mils wet, @ 50% RH:

Drying and recoat times are temperature, humidity, and film thickness dependent.

	@50°F	@77°F	@110°F
To touch	1 hours	30 minutes	5 minutes
To handle	8 hours	5 hours	15 minutes
To recoats	8 hours	5 hours	15 minutes
To cure	30 days	30 days	30 days

Tinting with CCE only:

Base	oz. per gallon	Strength
Extra White	0-6	SherColor
Ultradeep Base	10-14	SherColor
Vivid Yellow	0-12	SherColor

Extra White B66W01311

(may vary by base)

V.O.C. (less exempt solvents): As Mixed

242 grams per litre; 2.02 lbs. per gallon
As per 40 CFR 59.406

Volume Solids: 33 ±2%
Weight Solids: 42 ±2%
Weight per Gallon: 9.44 lbs
Flash Point: N/A
Vehicle Type: Acrylic
Shelf Life: 36 months, unopened

COMPLIANCE

As of 11/12/2024, Complies with:

OTC	Yes
OTC Phase II	Yes
S.C.A.Q.M.D.	No
CARB	Yes
CARB SCM 2007	Yes
CARB SCM 2020	Yes
Canada	Yes
LEED® v4 & v4.1 Emissions	No
LEED® v4 & v4.1 V.O.C.	Yes
EPD-NSF® Certified	No
MIR-Manufacturer Inventory	No
MPI®	Yes

APPLICATION**Temperature:**

minimum 35°F / 1°C
maximum 120°F / 49°C
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 1500 p.s.i.
Hose 1/4 inch I.D.
Tip .017-.021 inch
Filter 60 mesh

Conventional Spray:

Fluid Nozzle Binks 95
Air Nozzle 66
Atomization Pressure 50 p.s.i.
Fluid Pressure 15-20 p.s.i.

Reduction: As needed up to 10% by volume
R8K10 – WB Hot Weather Reducer

No reduction in areas that are less than 340 g/L. Confirm compliance with national, state, and local air quality rules before use.

Brush: Nylon-polyester
Roller Cover: 3/8 inch woven

If specific application equipment is listed above, equivalent equipment may be substituted. Consult spray manufacturer for more information on equipment variations.

Apply paint at the recommended film thickness and spreading rate as indicated. Application of coating above maximum or below minimum recommended spreading rate may adversely affect coating performance. Spreading rates are calculated on volume solids and do not include 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 loss during mixing, spillage, over thinning, climatic conditions, and excessive film build.

Application temperature above 95°F (35°C) may cause dry spray, uneven sheen, and poor adhesion. Application temperature below 50°F (10°C) may cause poor adhesion and lengthen the drying and curing time.

Mix paint thoroughly to a uniform consistency with slow speed power agitation prior to use.

Stripe coat crevices, welds, and sharp angles to prevent early failure in these areas. When using spray application, use 50% overlap with each pass of the gun to avoid holidays, bare areas, and pinholes. If necessary, cross spray at a right angle. During the early stages of drying, the coating is sensitive to rain, dew, high humidity, and moisture condensation. Plan painting schedules to avoid these influences during the first 16-24 hours of curing.

SPECIFICATIONS**Steel:**

1 coat Pro Industrial Pro-Cryl Primer
Or Pro Industrial DTM Primer/ Finish
Or Pro Industrial Kem Bond HS
Or Zinc Clad XI
2 coats Pro Industrial Sher-Cryl HPA

Aluminum:

2 coats Pro Industrial Sher-Cryl HPA

Aluminum:

1 coat Pro Industrial Pro-Cryl Primer
2 coats Pro Industrial Sher-Cryl HPA

Concrete Block (CMU):

1 coat Loxon Concrete & Masonry Block Filler
2 coats Pro Industrial Sher-Cryl HPA

Concrete-Masonry:

1 coat Loxon Concrete & Masonry Primer
Or Loxon Conditioner
2 coats Pro Industrial Sher-Cryl HPA

Drywall:

1 coat ProMar 200 Zero V.O.C Primer
2 coats Pro Industrial Sher-Cryl HPA

Galvanizing:

2 coats Pro Industrial Sher-Cryl HPA

Pre-Finished Siding (Baked-on Finishes):

1 coat Pro Industrial DTM Bonding Primer
2 coats Pro Industrial Sher-Cryl HPA

Previously Painted:

2 coats Pro Industrial Sher-Cryl HPA

Wood, Exterior:

1 coat Exterior Wood Primer
2 coats Pro Industrial Sher-Cryl HPA

Wood, Interior:

1 coat Premium Wall & Wood Primer
2 coats Pro Industrial Sher-Cryl HPA

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

Chromatic base colors require a prime coat for maximum durability, adhesion, and corrosion protection. Application of coating on unprimed bare steel may cause pinpoint rusting.

Pro Industrial™

Sher-Cryl™ High Performance Acrylic

SURFACE PREPARATION

WARNING! If you scrape, sand or remove old paint, you may release lead dust. LEAD IS TOXIC. EXPOSURE TO LEAD DUST CAN CAUSE SERIOUS ILLNESS, SUCH AS BRAIN DAMAGE, ESPECIALLY IN CHILDREN. PREGNANT WOMEN SHOULD ALSO AVOID EXPOSURE. Wear a NIOSH-approved respirator to control lead exposure. Clean up carefully with a HEPA vacuum and a wet mop. Before you start, find out how to protect yourself and your family by contacting the National Lead Information Hotline at 1-800-424-LEAD or log on to www.epa.gov/lead.

When cleaning the surface per SSPC-SP1, use only an emulsifying industrial detergent, followed by a water rinse. **Do not use hydrocarbon solvents for cleaning.**

Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Existing peeled or checked paint should be scraped and sanded to a sound surface. Glossy surfaces should be sanded dull. Stains from water, smoke, ink, pencil, grease, etc. should be sealed with the appropriate primer-sealer. Recognize that any surface preparation short of total removal of the old coating may compromise the service length of the system.

Iron & Steel - Minimum surface preparation is Hand Tool Clean per SSPC-SP2. Remove all oil and grease from surface per SSPC-SP1. For better performance, use Commercial Blast Cleaning per SSPC-SP6. Primer recommended for best performance. Prime any bare steel within 8 hours or before flash rusting occurs.

Aluminum - Remove all oil, grease, dirt, oxide and other foreign material per SSPC-SP1. Primer required.

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.

Concrete Block - Surface should be thoroughly clean and dry. Air, material, and surface temperatures must be at least 50°F (10°C) before filling. Use Pro Industrial Heavy Duty Block Filler or Loxon Acrylic Block Surfer. The filler must be thoroughly dry before topcoating.

Masonry - All masonry must be free of dirt, oil, grease, loose paint, mortar, masonry dust, etc. Clean per SSPC-SP13-Nace 6-ICRI No. 310.2R, CSP 1-3. Poured, troweled, or tilt-up concrete, plaster, mortar, etc. must be thoroughly cured at least 30 days at 75°F. Form release compounds and curing membranes must be removed by brush blasting. Brick must be allowed to weather for one year prior to surface preparation and painting. Prime the area the same day as cleaned. Weathered masonry and soft or porous cement board must be brush blasted or power tool cleaned to remove loosely adhering contamination and to get to a hard, firm surface. Apply one coat Loxon Conditioner, following label recommendations. Primer required.

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. Sand to remove any loose or deteriorated surface wood and to obtain a proper surface profile.

Prefinished Siding (baked-on finishes) - Remove oil, grease, dirt, oxides, and other contaminants from the surface by cleaning per SSPC-SP1 or water blasting per NACE Standard RP-01-72. Always checks for compatibility of the previously painted surface with the new coating by applying a test patch of 2 - 3 square feet. Allow to dry thoroughly for 1 week before checking adhesion. Pro Industrial DTM Bonding Primer is required.

SURFACE PREPARATION

Previously Painted Surface - 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. Always check compatibility of the previously painted surface with the new coating by applying a test patch of 2-3 square feet. Allow to dry thoroughly for 1 week before checking 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 length of the system.

Mildew - Prior to attempting to remove mildew, it is always recommended to test any cleaner on a small, inconspicuous area prior to use. Bleach and bleaching type cleaners may damage or discolor existing paint films. Bleach alternative cleaning solutions may be advised. Mildew may be removed before painting by washing with a solution of 1 part liquid bleach and 3 parts clean water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with clean water and allow the surface to dry before painting. Wear protective eyewear, waterproof gloves, and protective clothing. Quickly wash off any of the mixture that comes in contact with your skin. Do not add detergents or ammonia to the bleach-water solution.

PERFORMANCE

Pro Industrial Sher-Cryl HPA Gloss-2 coats

@ 3.0 mils D.F.T. per coat
(unless otherwise noted)

Abraction Resistance:

Method:
ASTM D4060, CS17 Wheel, 1000 cycles, 1kg load
Result: 59.1 mg loss

Adhesion:

Method: ASTM D4541
Result: 947 p.s.i.

Corrosion Weathering*:

Method: ASTM D5894, 7 cycles
Result: Rating 8 for rusting
Rating 10 for blistering

Direct Impact Resistance:

Method: ASTM D2794
Result: greater than 176 inch pound

Dry Heat Resistance:

Method: ASTM D2485
Result: 300°F/149°C

Flexibility:

Method: ASTM D522, 180° bend, 1/8 inch mandrel
Result: Pass

Humidity Resistance:

Method: ASTM D4585, 2186 hours
Result: Rating 10 for rusting
Rating 10 for blistering

Pencil Hardness:

Method: ASTM D3363
Result: 4B

Water Vapor Transmission (US Perms):

Method: ASTM D1653
Result: B66W01311 Gloss, total 4.3 DFT
16.89 grains/(hr ft² in Hg)
Result: B66W01351 Semi-Gloss, total 3.5 DFT
21.94 grains/(hr ft² in Hg)

*1 coat Pro Industrial Sher-Cryl HPA over 1 coat Pro Industrial Pro-Cryl Universal Primer

Provides performance comparable to products in lieu of the Federal Specification: AA50570, and Paint Specification: SSPC-Paint 24.

SAFETY PRECAUTIONS

Before using, carefully read **CAUTIONS** on label.

Refer to the Safety Data Sheets (SDS) 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.

CLEANUP INFORMATION

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

HOTW	11/12/2024	B66W01300	26	238
HOTW	11/12/2024	B66W01311	30	242
HOTW	11/12/2024	B66T01304	27	227
HOTW	11/12/2024	B66B01300	19	225
HOTW	11/12/2024	B66R01300	33	219
HOTW	11/12/2024	B66Y01300	29	219
HOTW	11/12/2024	B66W01351	38	238
HOTW	11/12/2024	B66T01354	30	244