



SHER-CRYL™ HPA

HIGH PERFORMANCE ACRYLIC

As of 12/04/2017, Complies with:			
OTC	Yes	LEED® 09 NC, CI	No
OTC Phase II	Yes	LEED® 09 CS	No
SCAQMD	No	LEED® 09 S	No
CARB	Yes	LEED® v4 Emissions	No
CARB SCM 2007	Yes	LEED® v4 VOC	No
Canada	Yes	MPI	(Gloss) Yes

B66W00300 Gloss Ultra White
B66W00311 Gloss Extra White
B66T00304 Gloss Ultradeep Base
B66B00300 Gloss Safety Black
B66R00300 Gloss Safety Red
B66Y00300 Gloss Safety Yellow

B66W00350 Semi-Gloss Ultra White
B66W00351 Semi-Gloss Extra White
B66T00354 Semi-Gloss Ultradeep Base

CHARACTERISTICS

SHER-CRYL HPA is a High Performance ambient cured, one component acrylic coating with excellent performance properties.

Features:

- Chemical resistant
- Outstanding humidity resistance
- Flash rust/early rust resistant
- Corrosion resistant
- Fast dry
- Outstanding application characteristics

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
- Suitable for use in USDA inspected facilities
- Interior or Exterior

Tinting with CCE:

Base	oz/gal	Strength
Extra White	0-4	SherColor
Ultradeep	10-12	SherColor

Shelf Life: 36 months, unopened

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

Gloss Extra White B66W00311

(may vary by base)

VOC (less exempt solvent) 195 g/L - 1.63 lb/gal
(as per 40 CFR 59.406 and SOR/2009-264, s. 12)

KU 90-100

Volume Solids: 37 ± 2%

Weight Solids: 46 ± 2%

Weight per Gallon: 9.59 lb/gal

Flash Point: N/A

Semi-Gloss Extra White B66W00351

(may vary by base)

VOC (less exempt solvent) 193 g/L - 1.61 lb/gal
(as per 40 CFR 59.406 and SOR/2009-264, s. 12)

KU 75-85

Volume Solids: 39 ± 2%

Weight Solids: 50 ± 2%

Weight per Gallon: 9.91 lb/gal

Flash Point: N/A

SPECIFICATIONS

Color: Extra White & Clear Tint Base-wide range of colors available
Recommended Spread Rate per coat: Gloss Extra White B66W00311 (may vary by base)

wet mils: 6.0 - 10.0
dry mils: 2.2 - 3.7
coverage: 270 - 160 sq ft/gal approximate

Theoretical coverage: 593 sq ft/gal @ 1 mil dry

Drying Schedule @ 7.0 mils wet, 50% RH:

	@ 50°F/10°C	@ 77°F/25°C	@ 120°F/49°C
To touch:	1 hour	30 minutes	5 minutes
To handle:	8 hours	5 hours	15 minutes
To recoat:	8 hours	5 hours	15 minutes
To cure:	30 days	30 days	30 days

RECOMMENDED SYSTEMS

Steel & Rusted Galvanized, acrylic primer:

1ct. Pro Industrial Pro-Cryl Primer

2cts. Sher-Cryl HPA

Steel alkyd or zinc primer:

1ct. Kem Bond HS

Or

1ct. Zinc Clad XI

2cts. Sher-Cryl HPA

Steel:

2cts. Sher-Cryl HPA

Aluminum & Galvanized Metal:

2cts. Sher-Cryl HPA

Concrete Block:

1ct. Pro Industrial Heavy Duty Block Filler

2cts. Sher-Cryl HPA

Poured Concrete Walls, Interior:

1ct. Loxon Concrete and Masonry Primer

2cts. Sher-Cryl HPA

Prefinished Siding (baked-on finishes):

1ct. DTM Bonding Primer

2cts. Sher-Cryl HPA

Previously Painted:

2cts. Sher-Cryl HPA

Wood, Exterior:

1ct. Exterior Oil-Based Wood Primer

2cts. Sher-Cryl HPA

Wood, Interior:

1ct. Premium Wall & Wood Primer

2cts. Sher-Cryl HPA

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

System Tested: (unless otherwise indicated)

Substrate: Steel

Surface Preparation: SSPC-SP10

Finish: Sher-Cryl HPA Gloss- 2cts @ 3.0 mils dft/ct (unless otherwise noted)

Abrasion Resistance:

Method: ASTM D4060, CS17 Wheel, 1000

cycles, 1 kg load

Results: 59.1 mg loss

Adhesion:

Method: ASTM D4541

Results: 947 psi

Corrosion Weathering¹:

Method: ASTM D5894, 7 cycles,

Result: Corrosion 8, Blistering 10

Direct Impact Resistance:

Method: ASTM D2794

Result: >176 in. lb

Dry Heat Resistance:

Method: ASTM D2485 Method A

Result: 300°F/149°C

Flexibility:

Method: ASTM D522, 180° bend,

1/8" mandrel

Result: Passes

Humidity Resistance¹:

Method: ASTM D4585, 2186 hours

Result: Corrosion 10, Blistering 10

Pencil Hardness:

Method: ASTM D3363

Result: 4B

Thermal Cycling:

Method: ASTM D2246, 10 cycles

Result: Pass

¹ 1 ct. Sher-Cryl HPA over 1 ct. Pro Industrial Pro-Cryl Universal Prime

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

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HIGH PERFORMANCE ACRYLIC



SHERWIN-WILLIAMS.

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.

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.**

Iron & Steel-Remove all oil and grease from surface by Solvent Cleaning per SSPC-SP1. Minimum surface preparation is Hand Tool Clean per SSPC-SP2. 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 by Solvent Cleaning per SSPC-SP1.

Galvanized Steel- Remove all oil, grease, dirt, oxide and other foreign material by Solvent Cleaning per SSPC-SP1. When 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 Block Surfacer. 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(23.9°C). 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. 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.

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. DTM Bonding Primer is required.

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, 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.

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 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 lost 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.

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

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 a 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.

APPLICATION

Refer to the SDS sheet before use

Temperature: 50°F/10°C minimum
 120°F/49°C 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. Excessive reduction of material can affect film build, appearance, and adhesion.

Reducer Water

R8K10 - WB Hot Weather Reducer up to 10%

Clean Up Soap & Water

Airless Spray

Pressure 1500 psi

Hose 1/4" ID

Tip017" - .021"

Filter 60 mesh

Reduction Not recommended

Conventional Spray

Gun Binks 95

Fluid Nozzle 66

Air Nozzle 63PB

Atomization Pressure 50 psi

Fluid Pressure 15-20 psi

Reduction .As needed up to 12.5% by volume

Brush

Brush Nylon / polyester

Reduction Not recommended

Roller

Cover 3/8" woven solvent resistant core

Reduction Not recommended

If specific application equipment is not 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.

HOTW	12/04/2017	B66W00311	21 195
HOTW	12/04/2017	B66W00351	20 193
FRC,SP, KOR			

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.