CHARACTERISTICS

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
- Corrosion resistant
- Fast dry
- Suitable for use in USDA inspected facilities

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

For use on properly prepared:
Steel, Galvanized & Aluminum, Concrete and Masonry, Wood, Previously Painted & Zinc rich primers

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

Color:
Most colors

Recommended Spreading Rate per coat:
Extra White B66W00311 (may vary by base)

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

To dry:
- @50°F:
- @77°F:
- @110°F:

To handle:
- 1 hour 8 hours 10 hours

To recoat:
- 30 minutes 15 minutes 15 minutes

To cure:
- 30 days 30 days 30 days

Tinting with CCE only:
Base:
- Extra White
- Ultradeep base

V.O.C. (less exempt solvents):
- Extra White: 239 grams per litre; 1.99 lbs. per gallon
- Ultradeep base: 10-12 SherColor

Extra White B66W00311 (may vary by color)

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

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

COMPLIANCE

As of 02/19/2020, Complies with:

OTC
OTC Phase II
SCAQMD
CARB
CARB SCM 2007
Canada
LEED® v4 & v4.1 Emissions
LEED® v4 & v4.1 V.O.C. EPD-NSF® Certified
MIR-Product Lens Certified
MPI-(Gloss)

APPLICATION

Temperature:
- minimum: 50°F / 10°C
- maximum: 120°F / 49°C

Relative humidity: 55% maximum

Reducer: Water

Airless Spray:
- Pressure: 1500 p.s.i.
- Hose: 1/4 inch I.D.
- Tip: .017 -.021 inch
- Filter: 60 mesh

Conventional Spray:
- Gun: Binks 95
- Fluid Nozzle: 66
- Atomization Pressure: 50 p.s.i.
- Fluid Pressure: 15-20 p.s.i.
- Reduction: As needed up to 12.5% by volume
- Brush: Nylon-polyester
- Roller Cover: 3/8 inch woven

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

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.

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

Striping is recommended prior to final recoat of the coating. Proper coverage may be achieved on flat, smooth, or well-primed surfaces.

Theoretical Coverage:
- 529 sq. ft. per gallon @ 1 mil dry

SPECIFICATIONS

Steel:
- 1 coat Pro Industrial Pro-Cryl Primer
- or Pro Industrial DTM Primer/Finish
- or Kem Bonds HS
- or Zinc Clad XI
- 2 coats Sher-Cryl HPA

Aluminum:
- 2 coats Sher-Cryl HPA

Concrete Block (CMU):
- 1 coat Pro Industrial Heavy Duty Blockfiller
- or Loxon Acrylic Block Surfacer
- 2 coats Sher-Cryl HPA

Concrete-Masonry:
- 1 coat Loxon Concrete & Masonry Primer
- or Loxon Conditioner
- 2 coats Sher-Cryl HPA

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

Galvanizing:
- 2 coats Sher-Cryl HPA

Pre-Finished Siding: (Baked-on finishes)
- 1 coat DTM Bonding Primer
- 2 coats Sher-Cryl HPA

Previously Painted:
- 2 coats Sher-Cryl HPA

Wood, exterior:
- 1 coat Exterior Wood Primer
- 2 coats Sher-Cryl HPA

Wood, interior:
- 1 coat Premium Wall & Wood Primer
- 2 coats Sher-Cryl HPA

Other primers may be appropriate.
SURFACE PREPARATION

WARNING! Removal of old paint by sanding, scraping or other means may generate dust or fumes that can lead to cancer. 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-LI-LEAD (in U.S.) 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.

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 Cleaning 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.

Galvanizing - Allow to weather a minimum of six months prior to coating. Solvent Clean per SSPC-SP1. When weathering is not possible, 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 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-N6-ICRI No. 310.2R, CSP 1-3. Pour, 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 brushed 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.

SURFACE PREPARATION

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 check 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. Test surf ace 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 water. Apply the solution and scrub the mildewed area. Allow the solution to remain on the surface for 10 minutes. Rinse thoroughly with 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

Sher-Cryl HPA Gloss – 2 coats @ 3.0 mils D.F.T per coat (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 Weathering:
Method: ASTM D5894, 7 cycles
Results: Corrosion 8, Blistering 10

Direct Impact Resistance:
Method: ASTM D2794
Results: greater than 176 in. lb

Dry Heat Resistance:
Method: ASTM D2485 Method A
Results: 300°F/149°C

Flexibility:
Method: ASTM D522, 180° bend, 1/8" mandrel
Results: Pass

Humidity Resistance:
Method: ASTM D4585, 2186 hours
Results: Corrosion 10, Blistering 10

Pencil Hardness:
Method: ASTM D3363
Result: 4B

CAUTIONS

The Sherwin-Williams Company makes no warranty of any kind, expressed or implied, for the accuracy of the technical data and instructions in this Product Data Sheet. Sherwin-Williams is not liable for any loss or damage resulting from the use of this product or from adherence to the technical data and instructions in this Product Data Sheet. Sherwin-Williams disclaims any liability for any damages resulting from any application of this product or any technical data and instructions in this Product Data Sheet. Sherwin-Williams reserves the right to discontinue or change specifications or prices, or make product improvements at any time without notice.

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, splatters, 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.

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.