



SHERWIN-WILLIAMS.



Exterior Repaint Specification for
FDOT Oviedo Operations
2400 Camp Road
Oviedo, Florida (Sher Cryl Option)



Prepared For:
Dee Zinck

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Specified substrates will be identified for the following buildings:

**5191 Front Offices
5249 Material Bins
5341 Longwood EB rest area
5342 WB Rest Area
5382 Herbicide
5446 Conference & Warehouse
5463 Dept of Corrections Barn
5475 Fuel Island Canopy
5937 EB Tower
5938 EB Tower Building
5941 Car Wash
5945 EB Utility Storage
5946 WB Utility Storage
5968 Shop
5969 Construction TBD
5970 Field Crew TBD
5971 Car Wash Shed
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5973 Car Wash Shed**

Excluded

5024 Barn

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Project Scope

Contractor shall strictly adhere to all applicable federal, state and local regulations associated with proper lead-safe work renovation, repair and painting practices and procedures. State and local regulations may be more strict than those set under the federal regulations. The federal practices and procedures are detailed in EPA's Lead Renovation, Repair and Painting Program Regulations Rule (RRP) 40 CFR Part 745, Subpart E, and as amended. Specifics associated with the RRP Rule pertaining to "Firm Certification", individual "Certified Renovator" Certification, pre-work activities (notification & testing), occupant protection / work site preparation measures, safe work / prohibited work practices, clean-up / clean-up verification / waste disposal / clearance testing (if applicable), recordkeeping and worker training criteria can be obtained on EPA's website: www.epa.gov/lead.

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. Removal must be done in accordance with EPA Renovation, Repair and Painting Rule and all related state and local regulations. Care should be taken to follow all state and local regulations which may be more strict than those set under the federal RRP Rule.

The work will consist of all preparation, painting, finishing work and related items necessary to complete work described in these specifications and listed in the remaining pages included within this specification.

A. Scope of Work

Work in general includes surface preparation, surface repair, caulking, sealants, patching and application of the paint coating to the substrates and systems outlined in this specification and approved by owner or owner's agent.

B. Materials

1. All materials specified are from The Sherwin-Williams Company.
2. All paints shall be delivered to the job site in the original container with the manufacturer's label intact.
3. The paint shall be used and applied per label and data sheet instructions. The material shall not be thinned or modified in any way unless specified herein. Manufacturer's recommendation for proper surface preparation shall be followed. All data sheets on specified materials are available from your local Sherwin-Williams representative or www.paintdocs.com.
4. All paint and sundries at the job site shall be available for inspection at any time upon commencement of the job by the owner, owner's agent, or a Sherwin-Williams representative.

C. Protection of Substrates Not to be Painted

1. Contractor shall protect his/her work at all times and shall protect all adjacent work and materials by suitable covering or other methods during progress of work. The contractor will protect all adjacent areas not to be painted by taking appropriate measures. Areas to be protected are windows, brick, surrounding lawn, trees, shrubbery, floor and steps. Upon completion of work, he/she shall remove all paint droppings and over-spray from floors, glass, concrete and other surfaces not specified to be painted.

D. Minimum Specifications

1. If instructions contained in this specification, bid documents or painting schedule are at variance with the paint manufacturer's instructions or the applicable standard, and codes listed, surfaces shall be prepared and painted to suit the higher standard, as determined by Sherwin-Williams, the customer or management representative.

E. Resolution of Conflicts

1. Contractor shall be responsible for stopping work and request prompt clarification when instructions are lacking, when conflicts occur in the specifications and/or paint manufacturer's literature, or the procedures specified are not clearly understood. Any questions concerning these specifications should be clarified prior to commencing the job. Any changes to these specifications would require written approval by Sherwin-Williams, the customer or customer's representative.

F. Coordination of Work

1. The general contractor and subcontractor shall be responsible for coordination of his work with the other crafts and contractors working on the same job and with the Management Company or owner.

G. Safety

1. All pertinent safety regulations shall be adhered to rigidly. In addition, all safety noted on the manufacturer's Product Data Sheets and labels shall be observed. Material Safety Data Sheets and Product Data Sheets are available from your local Sherwin-Williams store or representative or by visiting www.sherwin-williams.com.
2. Verify the existence of lead-based paints on the project. Buildings constructed after 1978 are less likely to contain lead-based paints. If lead-based paints are suspected on the project, all removal must be done in accordance with the EPA Renovation, Repair and Painting Rule or similar state regulation. Verify that owner has completed a Hazardous Material Assessment Report for the project prior to issuing of Drawings.

H. Jobsite Visitation

1. The contractor shall be responsible for visiting the jobsite and familiarizing himself with the job and working conditions.
2. All work during application is subject to inspection by the owner or his representative.
3. It will be the paint contractor's responsibility to own and use a wet film thickness gauge to check his application thickness as he proceeds.
4. Contractor and owner have complete responsibility for ensuring that the project specifications are followed, notwithstanding periodic visits to the project by any Sherwin-Williams representative.
5. Any questions concerning these specifications should be clarified prior to commencing the job. Any changes to these specifications would require written approval of the owner, agent, or Sherwin-Williams representative.

I. Surface Preparation

1. Each surface shall be cleaned, scrapped, sanded and prepared as specified. The painting contractor is responsible for the finish of his work. Should any surface be found unsuitable to produce a proper paint or sealant finish, the project representative shall be notified, in writing, and no materials shall be applied until the unsuitable surfaces have been made satisfactory. Commencing of work in a specific area shall be construed as acceptance of surfaces and thereafter as fit and proper to receive finish. Contractor shall be fully responsible for satisfactory work.
2. All deteriorated or delaminated substrates (i.e. wood, hardboard siding, T-111, stucco and masonry surfaces) shall be replaced with new materials. New substrates will be box primed (6 sides) before installation in accordance with specifications. Delaminating substrate is defined as a substrate surface that paint is being applied to lifting or peeling away from the previous coating/s or original substrate/s.

3. All exterior surfaces to be painted shall be pressure cleaned, scrapped to remove all dirt, mildew, peeling paint, chalk and any foreign materials detrimental to the new finish (see Pressure Washing).
4. Thoroughly sand all glossy surfaces to create a profile for paint and/or primer to adhere to.
5. Apply caulks and sealants where appropriate. All existing underperforming caulks or sealants should be removed and replaced with sealant as specified. Allow sealant to cure for specified time in dry weather before paint is applied. **NOTE:** It is recommended to apply all primers first and then apply sealant before topcoat is applied. See specified sealants section.
6. Knots and pitch streaks shall be scraped, sanded and spot primed before full priming coat is applied. All nail holes or small openings shall be patched after priming coat is applied. Any wood that is rotten, cracked, delaminated or water damaged should be replaced. Any loose or peeling paint should be removed by sanding and scraping. All hard, glossy surfaces should be sanded down to create a profile for new paint to adhere. Fill nail holes, imperfections and cracks with putty (color to match primer). Edges, corners and raised grain shall be prepared by sanding. Apply sealants to all joints between wood items with a specified sealant.
7. All masonry surfaces should be scrapped and cleaned to remove all peeling paint, delaminated surfaces or substrates, chalk, dirt, stains, efflorescence and other surface contaminants. These areas shall be pressure washed and scrubbed with a cleaner/degreaser solution. After cleaning if there is still chalk evident this should be brought to the owner's attention in writing before any further work is done. Use an industry accepted patch or filler to assure a visually aesthetic finished substrate. Any masonry surface should be toughly tested to assure the surface pH levels are within accepted range of coating/s to be applied.
8. Brick must be free of dirt, loose or peeling paint, loose and excess mortar, delaminating layers of the brick, and foreign material. All brick should be allowed to weather for at least one year followed by wire brushing to remove efflorescence. Treat the bare brick with one coat of Loxon Conditioner. Any areas of breakage shall be patched and dried using specified Sherwin-Williams patching compound in accordance with Product Data Sheet instructions before coatings are applied.
9. All galvanized gutters and flashing should be thoroughly cleaned and sanded to remove loose and peeling paint. Any bare galvanized metal should be wiped down with a non-petroleum solvent cleaner.
10. All ferrous metals should be thoroughly cleaned and all loose rust or mill scale be removed by wire brush, scraper and/or power tool, such as an electric drill with wire brush attachment. Any rust spots or bare metal should receive the specified prime coat. Any hard, glossy surfaces should be sanded or dulled. Previously painted hand rails in sound condition should be washed down with a strong degreasing cleaner such as Krud Kutter, M-1 House Wash or Simple Green.
11. All vinyl siding should be clean thoroughly by scrubbing with a warm, soapy water solution. Rinse thoroughly. Do not paint vinyl siding with any color darker than the original color, unless the product and color are designed for such use. Painting with darker colors may cause siding to warp.
12. Cement Composition Siding/Panel/Fiber Cement Sidings : 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. Pressure clean, if needed, to remove all dirt, dust, grease, oil, loose particles, laitance, foreign material, and peeling or defective coatings. Allow the surface to dry thoroughly. The pH of the surface should be 7 or less, unless the products are designed to be applied to high pH substrates..
13. EIFS: Remove all surface contamination by washing with an appropriate cleaner, rinse thoroughly and allow to dry. Remove and replace any peeling or delaminating surfaces. Replace EIFS to manufactures recommendation.

J. Moisture

All areas that could cause paint failure due to moisture should be addressed and eliminated. This would include but is not limited to:

1. Gutters and downspouts not working properly.
2. Previous coats of paint not adhering properly.
3. Wood checking (cracks and splits in wood).

4. Deteriorated caulking or sealant.
5. Gaps between substrates.
6. Rotten wood.
7. Areas affected by water splashing.
8. Painting in inclement weather.
9. Painting an undry substrate.
10. Uncaulked nail holes.

K. Pressure Washing & Surface Preparation

1. Pressure wash or water blast to remove oil, grease, dirt, loose mill scale and loose paint by water at pressures of 2500-3000 p.s.i. Power tool clean per SSPC-SP3 to remove loose rust and mill scale. Hand tool clean per SSPC-SP2 and sand all glossy surfaces to promote adhesion.
2. Remove mildew per the following:
 - a. Tools: Stiff brush, garden pump sprayer or chemical injector power washer method.
 - b. Remove 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.

L. Application

1. Contractor shall be responsible for notification of owner's representative before beginning work if conditions substantially exceed Scope of Work.
2. Contractor shall protect his/her work at all times and shall protect all adjacent work and materials by suitable covering or other method during progress of the work. Upon completion of work, he/she shall remove all paint and varnish spots from floors, glass and other surfaces. He shall remove from premises all rubbish and accumulated materials of whatever nature not caused by others and shall leave his part of work in a clean, orderly, and acceptable condition.
3. Remove and protect hardware, accessories, device plates, lighting fixtures, factory finished work and similar items or provide ample in-place protection. Upon completion of each space, carefully replace all removed items.
4. Cover all electrical panel box covers and doors before painting walls. Omit if covers have been previously painted.
5. Materials shall be applied under adequate illumination, evenly spread and flowed on smoothly to avoid runs, sags, holidays, brush marks, air bubbles and excessive roller stipple. The finished paint film should be a consistent color and sheen to provide a uniform appearance.
6. All coats shall be dry to manufacturer's instructions before applying additional coats.
7. Any masonry surface with an elevated pH level or "hot spots" shall be sealed with a suitable primer/sealer prior to application of finish coat. High pH is considered at a level of 7 pH or greater.
8. When spray painting is specified, contractor shall finish 100 square feet by spraying a sample of finish upon request of owner. This shall be finished with materials specified and shall be called a Pilot Wall.
9. Exterior doors with paintable tops, bottoms, and side edges should be painted or sealed using the Door Manufacturer's paint specification and recommendations.
10. Building by building inspections will be made by the owner or his representative. If requested, a Sherwin-Williams representative may participate in these visits for technical consultation.
11. All repairs, replacements and applications are to meet or exceed all manufacturers' and attached specifications.

12. Elastomeric coatings shall not be applied directly over pre-existing elastomeric coatings.
13. Coverage and hide shall be complete. When color, stain, dirt, or undercoats show through final coat of paint, surface shall be covered by additional coats until paint film is of uniform finish, color, appearance and coverage (regardless of amount of coats specified).

M. Workmanship & Application Conditions

1. Keep surface dust, dirt and debris free before, during, and after painting, until paint is cured.
2. Execute work in accordance with label directions. Coating application shall be made in conformance to this specification and to the manufacturer's paint instruction on the labels and Product Data Sheets.
3. All work shall be accomplished by persons with the necessary skill and expertise and qualified to do the work in a competent and professional manner.
4. All shrubbery, outside carpeting and sprinkler systems shall be fully protected against damage during each stage of the painting project.
5. Paint all previously painted surfaces, including, but not limited to: stair systems, light poles and fixtures, pool fence, and underside of balconies. Any potentially hazardous substrate shall be reviewed with owner and owner's agent. All necessary safety precautions must be fully taken to ensure worker's safety.
6. All exterior substrates designated not to receive paint coatings shall be kept free of paint residue, i.e., windows, outdoor carpeting, walkways, etc.
7. Owner shall provide water and electricity from existing facilities.
8. Normal safety and "wet paint" signs, necessary lighting and temporary roping off around work areas shall be installed and maintained in accordance with OSHA requirements while the work is in progress.
9. A progress schedule shall be furnished by the contractor to the owner for approval and shall be based on the contract completion date. Contractor shall advise the owner of those areas in which work is to be performed sufficiently in advance of the work schedule to permit the owner to prepare for the work, advise residents, move vehicles, etc.
10. Do not paint over any code required labels or any equipment identification, performance rating, name or nomenclature plates.
11. Coverage and hide shall be complete. When color, stain, dirt, or undercoats show through final coat of paint, surface shall be covered by additional coats until paint film is of uniform finish, color, appearance and coverage (regardless of amount of coats specified).

N. Weather

1. All materials are to be applied in accordance with the product data page in regards to weather conditions. Stop exterior work early enough in the day to permit paint film to set up before condensation caused by night temperature drops occurs.
2. Do not begin painting until surfaces are moisture free.

O. Color Schedule

1. To be approved by owners.

2. The owner and project coordinator should be aware that certain colors, especially darker tones, fade more rapidly than other colors, regardless of the product manufacturer, product type, or substrate to which the product is applied. It is advisable for the owner, project coordinator, and/or person responsible for color selection to consult with Sherwin-Williams early in the planning stage to assure the most durable combination of tinting formulation is used to achieve the desired color. Additionally, color selection affects the hiding ability of the finish coats.

P. Coating Maintenance Manual

1. Upon conclusion of the project, the Contractor or paint manufacture/supplier shall furnish a coating maintenance manual, such as Sherwin-Williams "Custodian Project Color and Product Information" report or equal. Manual shall include an Area Summary with finish schedule, Area Detail designating where each product/color/finish was used, product data pages, Material Safety Data Sheets, care and cleaning instructions, touch-up procedures, and color samples of each color and finish used.

Recommended Coatings Systems

Thank you for the submittal of Sherwin-Williams products on the above referenced project. The Sherwin-Williams Company certifies that the products we intend to furnish will meet or exceed the performance requirements of the job specifications.

Surface preparation, application methods, spreading rates, and wet and dry film thicknesses will be determined by the attached specifications and our Material Safety Data Sheets, available at www.sherwin-williams.com, except as noted below.

All surface contamination, such as mildew, chalk, grease, dirt, grime, rust, efflorescence, old loose peeling paint, rotten wood and hard glossy surfaces, needs to be removed by pressure washing, prep work and hand tool clean, before a new coating system can be applied. Be sure to read and follow the Data Sheets before application.

Minimum Recommended Surface Preparation

SSPC-SP1: Remove all oil, grease, chalk and other surface contamination

SSPC-SP2: Remove all rotten wood, peeling paint and rust

Surface Cleaner: Krud Kutter Wash Cleaner or equivalent non-residue surface cleaner

Sealant: Concrete and Masonry Elastomeric Patching Material and Loxon S-1 Sealant

Caulks and Sealants

Execution

- A. Do not begin application of caulk or sealants until substrates have been properly prepared. Notify Architect of unsatisfactory conditions before proceeding.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Proceed with work only after conditions have been corrected, and approved by all parties, otherwise application of caulks and sealants will be considered as an acceptance of surface conditions.

Surface Preparation

- A. Clean all joints by removing any foreign matter or contaminants that would impede adhesion of the sealant to the building material. The surface must be dry and in sound condition. Remove oil, dust, dirt, loose rust, peeling paint or other contamination to ensure good adhesion.

- B. Porous materials are usually treated by mechanical means and nonporous surfaces by a solvent wipe that is compatible with the building substrate being used. **Note:** For porous surfaces, the use of detergent or soap & water is NOT recommended.
- C. Existing sealants intended to be painted should be tested to assure coatings will fully adhere. Silicone sealants cannot be painted unless tested and approved by Sherwin-Williams and Owner.
- D. Priming: When required, apply a primer. Do NOT allow it to pool or puddle.
- E. Install backup materials as required to ensure that the recommended depth is regulated when using the backup material.
- F. No exterior caulking should be done immediately after a rain, during foggy weather, when rain is predicted, or when the temperature is below 50°F, unless products are designed specifically for these conditions.

Installation

- A. Apply all caulks and sealants with manufacturer specifications in mind.
- B. Do not apply to wet or damp surfaces.
 - 1. Wait at least 30 days before applying to new concrete or masonry, or follow manufacturer's procedures to apply appropriate sealants prior to 30 days.
 - 2. Wait until wood is fully dry after rain or morning fog or dew.
- C. Apply sealants using methods recommended by manufacturer.
- D. Uniformly apply caulks and sealants without skips, voids or sags. Tool bead to a consistent, smooth surface.

Concrete: Vertical Applications

- 1. Exterior Polyurethane:
Sherwin-Williams Loxon S-1 Urethane Sealant

Concrete: Horizontal Applications (floor to wall sections)

- 1. Exterior Polyurethane:
Sherwin-Williams: Loxon S-1 One Component Self Leveling for Horizontal Surfaces

Column bases

- 1. Exterior Urethane
Sherwin-Williams: Loxon S-1 Urethane Sealant

Railing bases

- 1. Exterior Urethane
Sherwin-Williams: Loxon S-1 Urethane Sealant

Gaps: Large Areas

- 1. Interior/Exterior Insulating Foam:
Sherwin-Williams STOP GAP! Triple Expanding Insulating Foam

Metal: Ferrous and Non-Ferrous

- 2. Exterior Polyurethane:
Sherwin-Williams Loxon S-1 One Component Smooth

Paint and Coatings Systems

****Additional coats of paint may be required depending on the selection of colors, substrate conditions, and application procedures. Painters/GC must bid accordingly.****

Corrugated Metal walls and ceilings

- A. Prime Coat:** Loxon Conditioner (A24 Series) (applied 400 sqf per gallon)
(applied as needed prior to topcoat application where the surface is chalky)
- B. Finish:** *Sher-Cryl HPA High Performance Acrylic (B66 Series 6 mils wft 2.2 mils dft)*

Gutters and Downspouts

- A. Spot Prime:** Pro-Cryl Universal Metal Primer B66 series (5 mils WFT 2 mils DFT)
- B. Finish Coat:** *Sher-Cryl HPA High Performance Acrylic (B66 Series 6 mils wft 2.2 mils dft)*

Metal Entry Doors and window trim

- A. Spot Prime:** Pro Cryl Universal Metal Primer B66 series (5 mils WFT 2 mils DFT)
- B. Finish Coat:** Pro-Industrial DTM Acrylic Semi-Gloss B66 series (DFT 2.5 mils)

All wood surfaces including trim, certain fences and t-111 surfaces

- A. Spot Prime:** Pro-Block Latex Primer B51W620
- B. Finish Coat:** Super Paint Exterior Satin A89 series (4.8 mils DFT, 1.8 milsWFT)

CMU Walls

- A. Prime Coat:** Loxon Conditioner (A24 series) (applied 400 sqf per gallon)
- B. Finish Coat:** Super Paint Exterior Satin A89 series (4.8 mils DFT, 1.8 milsWFT)

Ferrous Metal Support Beams

- A. Spot Prime:** Pro-Cryl Universal Metal Primer B66 Series (DFT 2 mils)
(Removal of all loose coating prior to primer application required)
- B. Finish Coat:** Pro-Industrial DTM Acrylic Semi-Gloss B66 series (DFT 2.5 mils)

Safety Bollards

- A. Spot Prime:** Pro-Cryl Universal Metal Primer B66 series (5 mils WFT, 2 Mils WFT)
- B. Finish Coat:** DTM Acrylic Safety Yellow (B66 series) (2.5 Mils WFT)

Factory Finish Metals

- A. Prime Coat:** Pro-Cryl Universal Metal Primer B66 series (5 mils WFT, 2 Mils WFT)
- B. Finish Coat:** *Sher-Cryl HPA High Performance Acrylic (B66 Series 6 mils wft 2.2 mils dft)*

Loose coating needs to be removed prior to coating application





All mill scale rust to be removed prior to Primer application



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.

SHER-CRYL™ HPA
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 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 compliant cleanup solvent to prevent rusting of the equipment. Follow manufacturer's safety recommendations when using solvents.

HOTW	12/04/2017	B66W00311	21 195
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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.