



SHERWIN-WILLIAMS.

Exterior Repaint

Specification for

Westview (Boulder

Housing)



For: Boulder Housing Authority

Prepared By:

The Sherwin-Williams Company

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Table of Contents

Problem Area Pictures/Substrate

Project Scope

- A. Scope of Work
- B. Materials
- C. Protection of Substrates Not to be Painted
- D. Minimum Specifications
- E. Resolution of Conflicts
- F. Coordination of Work
- G. Safety
- H. Jobsite Visitation
- I. Surface Preparation
- J. Moisture
- K. Pressure Washing & Surface Preparation
- L. Application
- M. Workmanship & Application Conditions
- N. Weather
- O. Color Schedule

Recommended Coatings Systems

Minimum Recommended Surface Preparation

Caulks and Sealants

Coatings Systems

Stucco Masonry Surfaces (Crack Repair)

- Crack Repair
- Stucco, EIFS, Brick and Other Masonry Surfaces
- Fiber Cement Siding
- Wood Trim
- Wood Doors
- Aluminum Soffit Gutters and Downspouts

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

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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

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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

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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

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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

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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

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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.

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

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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 Stampede Urethane Sealant

Caulks and Sealants

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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.

PVC, Plastic, Brick, Stone, Masonry, Marble, Stucco, Cementitious Siding, Vinyl Siding, Wood:

1. Exterior Acrylic Latex:
SHER-MAX ULTRA Urethanized Elastomeric Sealant

Concrete: Vertical Applications

1. Exterior Polyurethane:
Sherwin-Williams STAMPEDE-1 One Component Smooth
Alternate Acrylic Latex: SHER-MAX ULTRA Urethanized Elastomeric Sealant

Concrete: Horizontal Applications

1. Exterior Polyurethane:
Sherwin-Williams: STAMPEDE-1SL One Component Self Leveling for Horizontal Surfaces

Gaps: Window & Door Frames

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

Gaps: Large Areas

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

Glass: Glazing

1. Exterior Latex:
Sherwin-Williams White Lightning Window & Door Siliconized Acrylic Latex Glazing Compound

Glass: Non-Structural Sealing

1. Exterior:
Sherwin-Williams White Lightning All Purpose Silicone Ultra

Metal: Ferrous and Non-Ferrous

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

EIFS

1. Exterior Polyurethane/Silicone Hybrid:
Sherwin-Williams STAMPEDE-100 One Component Polyurethane/Silicone Hybrid

Paint and Coatings Systems

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

Stucco Masonry Surfaces (Crack Repair)

Crack Repair

Identify all cracks in the existing substrates and repair per manufacturer's recommendation.

- A. For hairline cracks 1/16 inch or less wide — seal with Sherwin-Williams Concrete and Masonry Elastomeric Patching Compound (smooth or textured).
- B. For cracks 1/16-3/5 inch, route the crack open to a uniform size by mechanical methods. Clean out crack with water and allow to completely dry. Seal with Sherwin-Williams Concrete and Masonry Elastomeric Patching Compound (smooth or textured).
- C. For cracks deeper than 1/2 inch or wider than 1/4inch, backer rods should be used to fill the gap and to eliminate three-point adhesions. See data sheet for additional information.

EIFS, Stucco, Brick and Other Masonry Surfaces

- A. **Prime Coat:** Loxon Conditioner (Spot Prime over any patched areas)

Note: Stucco, brick, or other masonry surfaces with a pH level above 9 should be primed with Loxon Concrete & Masonry Primer (A24 Series)

- B. **Finish Coat:** SuperPaint Exterior Acrylic Flat (A80 Series) (4 mils WFT or 1.5 mils DFT)

Fiber Cement Siding:

- A. **Spot Prime Coat (new or existing):** Loxon Concrete & Masonry Primer (A24 Series) (5.3-8 mils WFT or 2.1-3.2mils DFT)

- B. **Finish Coat:** SuperPaint Exterior Acrylic Satin Finish (A89 Series) (4 mils WFT or 1.6 mils DFT)

Wood Trim/Pillars/Balconies

- A. **Finish Coat:** Superdeck Solid Stain (SD7 Series)(4 mils WFT or 1.2 mils DFT)

Note: Rough sawn wood surfaces must be back-rolled to ensure proper adhesion and a smooth final appearance. Fully review proper preparation section of this specification.

Wood Doors/Garage Doors

A. Prime Coat: Prime new or bare areas using Exterior Latex Wood Primer (B42W8041) (4 mils WFT or 1.2 mils DFT)

B. Finish Coat: SuperPaint Exterior Acrylic Satin Finish (A89 Series) (4 mils WFT or 1.6 mils DFT)

C. Aluminum Soffit Gutters and Downspouts

Note: Gutters should be cleaned inside and out and working prior to painting. PLEASE NOTE- Utility boxes and meters are NOT to be painted.

A. Spot Prime Coat: Pro Industrial Pro-Cryl (B66-310 Series) (5-10 mils WFT or 2-4 mils DFT)

B. Finish Coat: SuperPaint Exterior Acrylic Satin Finish (A89 Series) (4 mils WFT or 1.6 mils DFT)

Wood Steps

A. Finish Coat: Superdeck Solid Stain (SD7 Series)(4 mils WFT or 1.2 mils DFT)

Note: Rough sawn wood surfaces must be back-rolled to ensure proper adhesion and a smooth final appearance. Fully review proper preparation section of this specification.

Some surfaces may require a slip-resistant additive for safety. Surfaces may be slippery when wet and proper preventative precautions are recommended. If more than two coats are applied, and to aid in the prevention of slipping, an aggregate such as H&C® SHARKGRIP® Slip-Resistant Additive is recommended for use in the final coat

Special Surface-Mural

Spot Prime Coat Extreme Block(B51W100) – Allow 24 hour dry, check for bleed through. Top Coat per substrate instructions.

