

SECTION 09901 - PAINTING

PART 1 - GENERAL

1.01 SUMMARY

- A. Surface preparation and field application of paints and coatings to existing surfaces.
- B. Areas (Surfaces) to be Painted:
 - 1. Surfaces to be Painted: All existing painted surfaces shall be painted unless otherwise deleted explicitly in these specifications.
 - 2. Surfaces Not to be Painted:
 - a. Metal surfaces of anodized aluminum, copper, and similar finished metal surfaces shall not require painting unless previously painted or otherwise scheduled.
 - b. Factory/Pre-finished Items: When factory finishing or Contracting Officer-finishing is specified, such items shall not require painting unless otherwise scheduled.
 - c. Labels: Do not paint over code-required labels, such as Underwriters' Laboratories, or any equipment identification, performance rating, name, or nomenclature plates.
 - d. NSSB data equipment cable connection.
 - e. Rock walls
 - 3. "Paint" as used herein means all coating system materials, including primers, enamels, sealers, stains, varnish, and fillers, and other applied materials whether used as prime, intermediate or finish coats, except as expressly noted herein.

1.02 REFERENCES

- A. ASTM D 16 - Definition of terms relating to Paint, Varnish, Lacquer, and Related Products.
- B. ASTM D 2016 - Test Method for Moisture Content of Wood.
- C. PCA (Portland Cement Association) - Painting Concrete.
- D. PCDA (Painting and Decorating Contractors of America - Painting - Architectural Specification Manual.
- E. SSPC (Steel Structures Painting Council) - Steel Structures Painting Manual.

1.03 DEFINITIONS

- A. Conform to ASTM D 16 to interpret the terms used in this section.

1.04 SUBMITTALS

- A. Submit the following SECTION 01330 - SUBMITTAL PROCEDURES.
- B. Product Data:
 - 1. Materials List: Provide an inclusive list of required patching and coating materials. Indicate each material and cross-reference specific coating, finish system, and application. Identify each material by manufacturer's catalog number and general classification.
 - a. For products with pre-mixed colors, provide the manufacturer's standard color chips for selection by Contracting Officer.
 - 2. Manufacturer's Information: Provide data on all listed materials, including:
 - a. Thinning and mixing instructions.
 - b. Application instructions and required mil film thicknesses.
 - c. Manufacturer's Material Safety Data Sheets.
- C. Certifications: Provide a letter certifying paints and coatings are free of asbestos, lead, zinc-chromate, strontium chromate, cadmium, mercury, crystalline silica (except for chalkboard resurfacing paint), and other EPA-regulated and hazardous materials. Provide a letter certifying the amounts of mildewcide added by both the paint manufacturer and paint supplier.
- D. Schedule of Finishes: Provide a finish schedule, including paint spread rates required to achieve the final dry film thickness indicated in the schedule.
- E. Schedule of Operations: Provide a work schedule showing the sequence of operations and installation dates.
- F. Samples:
 - 1. Submit color and finish samples at the manufacturer's standard paint chip size illustrating the range of colors and textures available for each surface finishing product scheduled.
 - 2. After the color and finish sample are returned, submit paint finish samples, 8.5 inches x 11 inches in size, illustrating selected colors and textures for each selection.
- G. Manufacturer's Instructions: Indicate special surface preparation procedures and substrate conditions requiring special attention. Refer to the paragraph entitled "EXAMINATION" hereinbelow.

- H. Qualification Data: For Applicator.
- I. Delivery Receipts: Provide a copy of the delivery receipt, signed by the user's representative, attesting to the delivery of extra paint as required under the paragraph entitled "EXTRA MATERIAL" below.
- J. Guaranty: Submit written guaranty as specified in paragraph "GUARANTY" below.

1.05 REGULATORY REQUIREMENTS

- A. Comply with State OSHL (Occupancy Safety and Health Law) and pollution controls regulations of the State Department of Health and EPA.

1.06 QUALITY ASSURANCE

- A. Applicator Qualifications: A firm or individual experienced in applying paints and coatings similar in material, design, and the extent to those indicated for this Project, whose work has resulted in applications with a record of success in-service performance.
- B. Source Limitations: Obtain block fillers and primers for each coating system from the same manufacturer as the finish coats.
 - 1. Exception: Alkali-resistant primers if compatible with the intermediate coat paint products.
- C. In addition, the Contracting Officer shall have the right to require the immediate removal of any paint applicator who demonstrates negligence, lack of competence, or repeated non-compliance with the contract requirements.

1.07 DELIVERY STORAGE AND HANDLING

- A. Deliver materials to the Project site in the manufacturer's original, unopened packages and containers bearing the manufacturer's name and label and the following information:
 - 1. Product name or title of the material.
 - 2. Product description (generic classification or binder type).
 - 3. Manufacturer's brand name, lot number, and date of manufacture.
 - 4. Contents by volume for pigment and vehicle constituents.
 - 5. Thinning instructions.
 - 6. Application instructions and coverage.
 - 7. Color name and number.

8. VOC content.
- B. Storage:
1. Non-flammable Materials: Store materials not used in tightly covered containers in well-ventilated areas. Maintain storage containers in a clean condition, free of foreign materials.
 2. Flammable Materials: Store in such a manner as to prevent damage. No paint material, empty cans, paint brushes, and rollers may be stored on site. Store these items in separate storage facilities away from the site. The Contractor may furnish a separate job site storage structure if the structure complies with the requirements of the local Fire Department. Keep the storage area clean. Lock any storage structures when not in use or when no visual supervision is possible.
- C. All rejected materials shall be removed from the job site immediately.

1.08 PROJECT CONDITIONS

- A. Do not apply materials when surfaces and ambient temperatures are outside the ranges the paint product manufacturer requires. Do not apply coatings during rain or when the paint product manufacturer requires relative humidity outside the humidity ranges.
- B. Protect the public, pedestrians, and tenants from injury. Provide, erect, and maintain safety barricades around scaffolds, hoists, and where construction operations create hazardous conditions.
- C. Completed Work: Provide necessary protection for wet paint surfaces.
- D. Protective Covering and Enclosures: Provide and install clean sanitary drop cloth or plastic sheets to protect furniture, equipment, floor, and other areas not scheduled for treatment. Remove any paint applied to surfaces not scheduled for treatment.
- E. Fire Safety: The Contractor and its employees shall not smoke in the vicinity of the paint storage area. Exercise precautions against fire at all times and remove waste rags, plastic (polyester sheets), empty cans, and other similar items from the site at the end of each day.
- F. Where airless spraying is used, ensure that protective enclosures are erected to prevent the escape of overspray from the work area.
- G. Safeguarding Property: Safeguard the work and property of the State and other individuals in the vicinity of the Contractor's work. Make good on any damages and for losses to work or property caused by the Contractor or its employee's negligence. Where damaged property cannot be cleaned and restored to its original condition (i.e., before being damaged), replace it with a new product of equal quality. No proration or use of "used" products will be permitted.

1. For painting, assume that cars will not be temporarily relocated from parking areas during the painting operations.
 2. The Contractor shall be assessed \$1,000.00 for each incidence of property or personal damage caused by overspray until such time that the damaged party and corrective action have agreed upon a satisfactory settlement has been completed. All corrective action shall be settled within 24 hours from when the damage is discovered. Should the Contractor fail to take corrective action in a timely and expeditious manner, the Contracting Officer shall contact the Contractor's Insurance company to seek a resolution on the matter.
 3. Rolling is the preferred method, however if the contractor selects spraying as the chosen method, the contractor will be solely responsible for any overspray and all incidents shall be remedied per the above paragraph.
- H. Trim back shrubbery and plants and shall be 6 inches from surfaces to be painted.
- I. Areas Inaccessible to Normal Painting: The Contractor shall remove and reinstall signs to paint surfaces behind.

1.09 COMPATIBILITY OF PAINTING SYSTEMS AND SUBSTRATES

- A. The Contractor shall ensure that the painting systems specified are compatible with existing painted surfaces. Alkyd paints shall not be applied over existing latex coating. Alkyd paints shall not be used over cementitious surfaces. Latex paints shall not be applied directly over alkyd paints without good conditioner and approval by the Contracting Officer.
- B. Field Tests for Alkyd or Latex Paints: The Contractor shall perform the following field tests for compatibility of substrates to new paint systems before ordering paint:
1. Latex films will dissolve when wiped with rubbing alcohol; alkyd films will not.
 2. When sanded, latex films will "clog" sandpaper; alkyd films will sand clean.
 3. Alkyds will soften after applying a 10 percent solution of Drano in water; latex films will not soften.
 4. Alkyds will burn when exposed to a flame; latex film will not burn.
 5. Paints that do not respond to 2 or more of these tests are probably epoxy, urethane, or another type of coating.
 6. Provide a packaged swab test following the package directions.
 7. Existing paint identified or suspected of having lead-containing paint shall be tested in a manner that does not produce airborne or uncontrolled lead

debris.

- C. Should there be any discrepancies between the specified Schedule of Finishes and the existing paint systems, the Contractor shall notify the Contracting Officer in writing of any incompatible systems specified and submit a revised Schedule of Finishes for approval when necessary. With the approval of the revised Schedule of Finishes, the Contractor shall make any necessary corrections and revisions to resolve the discrepancies and inconsistencies. The Contractor shall not proceed with any incompatible painting systems, although specified otherwise, until all incompatible conditions detrimental to the proper application and performance of the painting systems have been corrected. The failures due to the application of the incompatible paint systems shall be corrected at no additional cost to the State. Proceeding with the work shall imply acceptance of the specified Schedule of Finishes and the compatibility with the existing painted surfaces by the Contractor.

1.10 MINIMUM PAINTING WORK

- A. Unless noted otherwise, the minimum painting work area shall be all exposed exterior painted surfaces. The extent shall be to the continuous surface or as directed by Contracting Officer.

1.11 GUARANTY

- A. Contractor shall provide a 2-year guarantee that the work performed under this section conforms to the contract requirements and is free of any material or workmanship defect.

1.12 EXTRA MATERIAL

- A. Provide extra paint in each of the different colors, types, and surface textures of exterior and interior paint to the user upon completion of the project. Paint shall be in unopened one-gallon containers and labeled with color, type, texture, room locations, and date in addition to the manufacturer's label.
 - 1. Provide (5) 1-gallon cans of each color for paint. Coordinate with the Contracting Officer for location of delivery.

PART 2 – PRODUCTS

2.01 PAINT MATERIALS, GENERAL

- A. Material Compatibility: Provide block fillers, patching materials, primers, and finish-coat materials that are compatible with one another and with the substrates indicated under conditions of service and application, as demonstrated by the manufacturer based on testing and field experience.
- B. Material Quality: Provide the manufacturer's best-quality paint material of the various coating types specified factory formulated and recommended by the manufacturer for the application indicated. Paint-material containers not displaying the manufacturer's product identification will not be acceptable.

1. Proprietary Names: Using the manufacturer's proprietary product names in the color schedule to designate colors or materials does not imply that products named are required to be used to the exclusion of equivalent products of other manufacturers. Furnish a comparison of the manufacturer's material data and certificates of performance for the proposed products to be used.
- C. Colors: As provided by the State.
- D. EPA Regulated and Hazard Materials: Do not use paint or paint products containing asbestos, lead, mercury, zinc chromates, strontium-chromate, cadmium mercury, crystalline silica (except for chalkboard resurfacing paint), or the EPA-regulated or hazardous materials.
- E. Except for metal primers, all paint shall contain the maximum amount of mildewcide per gallon of paint permitted by the mildewcide manufacturer without adversely affecting the quality of the paint. The Contractor shall pre-mix mildewcide into all interior and exterior paints and primers except as specified otherwise. Mercurial fungicide shall not be used.
- F. Exterior Paints:
1. Exterior Acrylic Semi-Gloss Paint complete with tint bases to color as scheduled or to match existing, including dark and specialty colors (not limited to green, blue, red, yellow, and brown); products must meet or exceed the following:
 - a. Acrylic semi-gloss, exterior finish for wood, masonry, metal, Stainless steel, and plaster.
 - b. Semi-gloss/satin finish: Gloss at 60 degrees 45-50.
 - c. Resin: 100 percent acrylic.
 - d. Viscosity: 95 - 105 K.U.
 - e. Percent Solids by Volume: 35 percent minimum.
 - f. Weight per Gallon: 10.5 pounds minimum.
- G. Primers: Provide a universal type that can be used over alkyd and latex substrates or primers that are specifically compatible with each existing substrate.
1. Typical Primer/Sealer, including tinting to match the color of the finish paint:
 - a. Primer, interior/exterior, water or oil base, all-purpose for wood, concrete, clean galvanized metal, aluminum, stainless steel, plaster, drywall, and hardboard.

- b. Undercoat for gloss latex or alkyd enamels.
- c. Able to sand and recoat in one hour.
- d. Virtually VOC-free product.
- e. Tinting: Light to mid-tone.
- f. stain killer.
- g. To be MPI #137 Sherwin Williams Multi-Purpose Latex Primer B51 or Zinsser Bulls Eye 1-2-3 water-based primer or approved equal

H. DLNR requirements

- 1. Exterior Paints: these can be water or oil base finish paints.

2.02 MISCELLANEOUS MATERIALS

- A. Provide patching and repair materials. Compatible with paint finishes and substrates. Use weather-resistant materials for exterior surfaces and surfaces exposed to moisture.
- B. Accessories
 - 1. General: Provide other materials that are not explicitly indicated but required to achieve commercial-quality finishes.
 - 2. Thinners: Thinning of paint shall be done using material recommended by the manufacturer. Mix proprietary products according to the manufacturer's requirements. Do not use compound thinner, mineral oil, kerosene, refined linseed oil, or gasoline for thinning.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates, areas, and conditions, with the Applicator present, for compliance with requirements for paint application. Comply with procedures specified in PDCA P4.
 - 1. Proceed with paint application only after unsatisfactory conditions have been corrected and surfaces receiving paint are thoroughly dry.
 - 2.
 - a. Measure the moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless the moisture content of surfaces is below the following maximums:
 - b.
 - 1) Plaster and Gypsum Wallboard: 12 percent.
 - 2) Masonry, Concrete, and Concrete masonry units: 12 percent.

- 3) Interior Wood: 15 percent, measured following ASTM D 2016.
 - 4) Exterior Wood: 15 percent, measured following ASTM D 2016.
- c. Start of painting will be construed as the Applicator's acceptance of surfaces and conditions within a particular area.

3.02 COORDINATION OF WORK

- A. Review other Sections in which primers are provided to ensure compatibility of the total system for various substrates. On request, furnish information on characteristics of finish materials to ensure the use of compatible primers.
- B. Notify the Contracting Officer about anticipated problems when using the materials specified over substrates primed by others.

3.03 PREPARATION

- A. General: Remove hardware and hardware accessories, plates, machined surfaces, lighting fixtures, and similar items already installed that are not to be painted. If removal is impractical or impossible because of the size or weight of the item, provide surface-applied protection before surface preparation and painting.
 1. After completing painting operations in each space or area, reinstall items removed using workers skilled in the trades involved.
- B. Cleaning: Before applying paint or other surface treatments, clean substrates of substances that could impair the bond of the various coatings. Remove oil and grease before cleaning.
 1. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.
- C. Surface Preparation: Clean and prepare surfaces to be painted according to the manufacturer's instructions for each particular substrate condition and as specified.
 1. General: Correct defects and clean surfaces affecting this section's work. Remove all existing coatings that exhibit loose surface defects.
 - a. Provide barrier coats over marks, patches, and other imperfections which may bleed through the surface finish.
 - b. Remove all foreign matter such as nails, screws, staples, tape, and gum from surfaces to be repainted.
 - c. Remove all loose, blistered, scaled, crazed, or chalky finish to an existing tight and firm finish.

- d. Remove mildew as noted in the "Mildew Removal Preparation" paragraph below.
 - e. Spot prime areas where bare wood, concrete, masonry, plaster, fill, seal, or patched material is exposed with the specified Primer and feather out onto adjacent paint.
 - f. Remove all loose or cracked caulking.
2. Wash all surfaces with tri-sodium phosphate and water or other appropriate solution to remove any accumulated film of wax, oil, grease, smoke, dust, dirt, chalking, or other foreign matter which would impair the bond of or bleed through the new paint finish. After washing, rinse the surface with potable water and allow it to dry thoroughly. As noted in the paragraph entitled "High-Pressure Water Washing Preparation" below, rinsing may be performed by high-pressure water washing.
 - a. Surfaces shall dry a minimum of 24 hours before the application of primers. For wood surfaces, drying shall continue until the moisture content of the wood is less than 15 percent for concrete and concrete masonry surfaces. Test for alkali and moisture.
 3. Lightly sand the surface where the existing finish remains tight and firm. Where the paint has been removed, sand the edges of scarred areas to a smooth feathered edge.
 4. Fill holes (nail, tack, staple, and other similar items), cracks, open joints, and other imperfections with appropriate compound and allow to set (door and trim included). Reseal all joints where loose or cracked caulking was removed. Seal all openings which will permit the entrance of water. Sealing compounds shall be compatible with the substrate, primer, and paint. Apply and allow sealants to set following the manufacturer's recommendations.
 5. Cementitious Materials: Seal all cracks hairline to 1/8-inch in width with concrete patching compound. All cracks over 1/8 inch in width and holes 1/4 inch in diameter or greater shall be sealed with a latex-modified or epoxy-modified reinforced patching system before paint application. All patching shall be done following the patching manufacturer's recommendations and instructions. All patching shall be done following the manufacturer's recommendations and instructions. Apply texture, if required, to match existing textured surfaces.
 6. Plaster Surfaces: Scarred plaster areas shall be patched with appropriate plaster materials. Fill holes, cracks, open joints, and damaged areas with a vinyl base or latex-modified patching system. Apply texture, if required, to match existing textured surfaces.
 7. Ferrous and Galvanized Metal Surfaces:
 - a. Comply with preparation requirements of the Steel Structures Painting Council (SSPC) Standard SP3.

- b. Remove rust, loose mill scale, and blistering/lose paint by power tool chipping, de-scaling, sanding, wire brushing, and grinding down to the bare metal. Only tightly adhering surface rust, mill scale, and paint which cannot be removed with a dull putty knife, may remain. Do not burnish the surfaces during cleaning.
 - c. Completely wipe surfaces with mineral spirits or other appropriate solutions to remove the accumulated film of wax, oil, grease, smoke, dust, dirt, chalky, or other foreign matter which would impair the bond of or bleed through the new paint finish—patch imperfections, holes, dents to form a smooth surface.
 - d. Lightly sand the surface where the existing finish remains tight and firm. Where the paint has been removed, sand the edges of scarred areas to a smooth feathered edge. Allow the surfaces to dry thoroughly, immediately spot prime bare metal areas with the specified primer, and feather out onto adjacent paint.
8. Aluminum Surfaces Scheduled for Paint Finish:
- a. Remove surface contamination by steam or high-pressure wash.
 - b. Remove oxidation with acid etch and solvent washing.
 - c. Apply etching primer immediately following cleaning.
9. Insulated Coverings: Remove dirt, grease, and oil from the covering material.
- D. Mildew Removal Preparation:
- 1. Remove mildew and sterilize the surface to be painted using one of the following methods:
 - a. Apply a commercial mildew remover applied per the manufacturer's instructions.
 - 2. Following treatment, clean the surface with potable water and allow it to dry thoroughly before priming, painting, or applying sealing and caulking compounds.
- E. Material Preparation: Mix and prepare paint materials according to the manufacturer's written instructions.
- 1. Maintain containers used in mixing and applying paint in a clean condition, free of foreign materials and residue.
 - 2. Stir material before application to produce a mixture of uniform density. Stir as required during application. Do not stir surface film into the material. If necessary, remove the surface film and strain the material before use.

3. Use only thinners approved by the paint manufacturer and only within recommended limits.
4. Tinting: Tint each Undercoat a lighter shade to simplify the identification of each coat when multiple coats of the same material are applied. Tint undercoats to match the color of the finish coat but provide sufficient differences in the shade of undercoats to distinguish each separate coat.

3.04 APPLICATION

- A. General: Apply paint according to the manufacturer's written instructions. Use applicators and techniques best suited for the substrate and type of material being applied.
 1. Paint colors, surface treatments, and finishes are indicated in the paint schedules.
 2. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to forming a durable paint film.
 3. Provide finish coats that are compatible with the primers used.
 4. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, grilles, covers, handrails, and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide the desired protection.
 5. Paint surfaces behind portable equipment and furniture similar to exposed surfaces. Before final installation of equipment, paint surfaces behind permanently fixed equipment or furniture with prime coat and first coat of finish unless otherwise noted.
 6. Ensure primers are top-coated within the times required by the paint manufacturers. Top coats not applied within the recoating window will be rejected.
- B. Scheduling Painting: Apply the first coat to surfaces that have been cleaned, pretreated, or otherwise prepared for painting as soon as practicable after preparation and before subsequent surface deterioration.
 1. The number of coats and film thickness required is the same regardless of the application method. Do not apply succeeding coats until the previous coat has cured, as recommended by the manufacturer. If sanding is required to produce a smooth, even surface according to the manufacturer's written instructions, sand between applications.
 2. If undercoats, stains, or other conditions show through the final coat of paint, apply additional coats until the paint film is of uniform finish, color, and appearance. Give special attention to ensure that edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.

3. Allow sufficient time between successive coats to permit proper drying. Do not recoat surfaces until the paint has dried to where it feels firm and does not deform or feel sticky under moderate thumb pressure and until applying another coat of paint does not cause the Undercoat to lift or lose adhesion.
 4. Be aware of the requirements and restrictions of the paragraph entitled "PROJECT CONDITIONS" hereinabove on spray painting.
- C. Application Procedures: Apply paints and coatings by brush, roller, spray, or other applicators according to the manufacturer's written instructions. Rolling is the preferred method, however if the contractor selects spraying as the chosen method, they contractor will be solely responsible for any overspray and all incidents shall be remedied per section "PROJECT CONDITIONS".
1. Brushes: Use brushes best suited for the material applied. Use a brush of appropriate size for the surface or item being painted.
 2. Rollers: Use rollers of carpet, velvet-back, or high-pile sheep's wool as the manufacturer recommends for the material and texture required.
 3. Spray Equipment: Use airless spray equipment with orifice size as the manufacturer recommends for the material and texture required.
- D. Minimum Coating Thickness: Apply paint materials no thinner than the manufacturer's recommended spreading rate to achieve the dry film thickness indicated. Provide total dry film thickness of the entire system as the manufacturer recommends.
- E. Mechanical and Electrical Work: Painting of mechanical and electrical work is limited to items exposed..
- F. Electrical items to be painted include, but are not limited to, the following:
1. Switchgear.
 2. Panelboards.
 3. Electrical equipment indicated to have a factory-primed finish for field painting.
 4. Electrical boxes and conduits.
- G. Block Fillers: Apply block fillers to concrete masonry block at a rate to ensure complete coverage with pores filled.
- H. Prime Coats: Before applying finish coats, apply a prime coat, as recommended by the manufacturer, to material that is required to be painted or finished and that has not been prime coated by others. Recoat primed and sealed surfaces where evidence of suction spots or unsealed areas in the first coat appears to ensure a finish coat with no burn-through or other defects due to insufficient sealing.

- I. Pigmented (Opaque) Finishes: Completely cover surfaces as necessary to provide a smooth, opaque surface with a uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be acceptable.
- J. Completed Work: Match approved samples for color, texture, and coverage. Remove, refinish, or repaint work not complying with requirements.

3.05 FIELD QUALITY CONTROL TESTING

- A. Inspection and Approvals: Unless directed otherwise by the Contracting Officer, obtain written approval upon completion of each phase of work (phases of work are surface preparation and spot prime, prime, first finish coat, second finish coat) before proceeding into the next phase or work. For any particular area of work that deviates from the submitted work schedule, notify the Contracting Officer one day in advance when completing any phase of work. Provide access to areas to be inspected.
- B. Failure to obtain approval for any phase of work for a work area may result in redoing the operation at no cost to the State.
- C. Right of Rejection: Non-conforming work will be rejected by the Contracting Officer. Remove rejected material from the job site immediately. Redo rejected work at no cost to the State.
 - 1. Where the required paint thickness is deficient, provide additional coats to the affected surface(s) to meet the required paint thickness.

3.06 CLEANING

- A. Cleanup: At the end of each workday, remove empty cans, rags, rubbish, and other discarded paint materials from the Project site.
 - 1. After completing the painting, clean glass and paint-spattered surfaces. Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces.

3.07 PROTECTION

- A. Protect work of other trades, whether being painted or not, against damage from painting. Correct damage by cleaning, repairing, replacing, and repainting, as approved by the Contracting Officer.
- B. Provide "Wet Paint" signs to protect newly painted finishes. After completing painting operations, remove temporary protective wrappings provided by others to protect their work.
 - 1. After the work of other trades is complete, touch up and restore damaged or defaced painted surfaces. Comply with procedures specified in PDCA P1.

3.08 SCHEDULE OF FINISHES

- A. The Schedule of Finishes is made for the Contractor's convenience and indicates the types and quality of finishes to be applied to the surfaces. Provide additional systems for surfaces to be painted not listed from now on.
- B. The Schedule or Finishes is as follows: Provide prime coat and two finish coats unless otherwise noted/scheduled or specified herein.
 - 1. Provide primer and 2 finish coats over existing paint surfaces in poor condition, where the color of existing paint is darker than the new paint color; where one finish coat will not hide color differences and shows streaking; where existing paint is peeling and flaking; and where there is rust and scaling on ferrous metal surfaces.
 - 2. Paint with appropriate Primer for the painted material per the manufacturer's recommendations.
 - 3. Paint with appropriate finish coats for the material being painted to match the existing sheen and color unless otherwise noted/scheduled or directed by the Contracting Officer.
 - 4. Touch up paint with appropriate paint where noted/scheduled or directed by the Contracting Officer.
- C. Exterior: Use low-odor paints to the greatest extent possible.

Exterior System

1. Metal-Galvanized

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|---|--|
| Pretreatment | Ospho Metal Treatment of SSPC SP-1 |
| Primer | MPI-134 Sherwin Williams ProCryl Universal Metal Primer B66-310, 2.2 mils DFT @ 321 sf/gal |
| 2 nd & 3 rd coats | MPI-163 Sherwin Williams Pro Industrial DTM B66 SG @ 3.0 mils DFT per coat (<50 VOC) |

2. Metal-Ferrous New and Existing

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|---|---|
| Pretreatment | Ospho Metal Treatment of SSPC SP-1 |
| Primer | MPI-20 Sherwin Williams Zinc Clad B66 @ 4.0 mils DFT @ 300 sf/gallon |
| 2 nd & 3 rd coats | MPI-134 Sherwin Williams Pro Industrial DTM Acrylic S.G. @ 250 sf/gallon |

3. Stainless Steel

| | |
|---|--|
| Pretreatment | Ospho Metal Treatment of SSPC SP-1 |
| Primer | Sherwin Williams Pro Industrial DTM Wash Primer B71 @ 1.0 mils DFT @ 300 sf/gallon |
| 2 nd & 3 rd coats | MPI-174 Sherwin Williams High Solids Polyurethane 250 @ 4.0 DFT, 300 sf/gallon |

4. Concrete/Plaster (New and Existing)

Existing with Latex-Based Finish

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|--|---|
| Primer | MPI-3 Sherwin Williams Loxon LX02 Primer @ 2.3 mils DFT @ 250 sf/gal |
| 2 nd & 3 rd coat | MPI-11 Sherwin Williams Solo 100% Acrylic GL A76 Series 1.59 mils DFT @ 303 sf/gal per coat |

Existing with Solvent-Based Finish

| | |
|--|---|
| Primer | MPI-6 Sherwin Williams Multi-Purpose Latex Primer @ 3.0 mils DFT @ 300 sf/gal |
| 2 nd & 3 rd coat | MPI-11 Sherwin Williams Solo 100% Acrylic SG A76 Series 1.59 mils DFT @ 303 sf/gal per coat |

5. New and Previously Painted Wood:

| | |
|--|---|
| Primer | Sherwin Williams PrepRite Pro-Block Primer B51 @ 1.4 mils DFT (<50 VOC) |
| 2 nd & 3 rd coat | Sherwin Williams Pro Industrial W.B. Alkyd Urethane Enamel SG B53, 1.7 mils DFT @ 350 sf/gal per coat (<50 VOC) |

C. Any existing painted surface not explicitly noted in the finish schedule shall be finished to match adjoining work.

END OF SECTION