

SECTION 09900 - ARCHITECTURAL PAINT FINISHES

City of San Diego, CWP Guidelines

PART 1 -- GENERAL

1.1 WORK OF THIS SECTION

- A. The WORK of this Section includes preparation of surfaces and painting of surfaces not intended to receive other protective coatings.
- B. Following are some of the types of surfaces which are not included in the WORK of this Section:
 - 1. Factory-finished surfaces.
 - 2. Surfaces whose coatings are for the specific purpose of protection from abrasion, wear and tear, or from corrosion, oxidation, decomposition, or other effects of exposure.
 - 3. Stainless steel, aluminum brass, bronze, and plated finished metals (not zinc or cadmium).
 - 4. Finish hardware except prime-coated items, and fusible links, UL labels, nameplates, numbers, and identifying data.

1.2 RELATED SECTIONS

- A. The WORK of the following Sections applies to the WORK of this Section. Other Sections of the specifications, not referenced below, shall also apply to the extent required for proper performance of this WORK.
 - 1. Section 09800 Protective Coating

1.3 STANDARD SPECIFICATIONS

- A. Except as otherwise indicated in this Section of the Specifications, the CONTRACTOR shall comply with the Standard Specifications for Public Works Construction (SSPWC), as specified in Section 01090 - REFERENCE STANDARDS.

1.4 CODES

- A. The WORK of this Section shall comply with the current editions, with revisions, of the following codes and City of San Diego Supplements:
 - 1. Uniform Building Code

1.5 SHOP DRAWINGS AND SAMPLES

- A. The following shall be submitted in compliance with Section 01300:
 - 1. Manufacturer's product data describing paint materials as to composition and manufacturer's recommended usage, preparation and application.
 - 2. List of proposed paint materials with each material identified, manufacturer's name, product name, and number. The list shall include primers, thinners, and coloring agents. The list shall be submitted within [] [60] days after [] [Notice to Proceed].
 - 3. Color samples and stain samples. Stain samples shall be provided on the same material as the stain will be applied in the final installation.
 - 4. Identification, including finish and color, of surfaces to receive paint materials.

1.6 FIELD TESTING

- A. Thickness of the paint film shall be tested by the CONSTRUCTION MANAGER in compliance with Section 09800. CONTRACTOR shall furnish the required gages for performing these tests.

1.7 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. The paint materials shall be delivered to the job site in the manufacturer's unopened containers.
- B. Paint materials shall be covered, and precautions shall be taken for the prevention of fire. Paint thinner shall not be stored in a room scheduled to receive resilient flooring.

1.8 QUALIFICATIONS

- A. Paint materials shall be the products of reputable manufacturers, specializing in such products, who have demonstrated successful experience with the indicated coating systems in the recent past.

1.9 WARRANTY INSPECTION

- A. A warranty inspection shall be conducted during the eleventh month following completion of painting WORK. The CONTRACTOR and Installer shall attend this inspection. The OWNER may, at his sole option, by written notice to the CONTRACTOR, reschedule the warranty inspection within the contract guarantee period, or may cancel the warranty inspection altogether.

PART 2 -- PRODUCTS

2.1 GENERAL

- A. **General:** Only paint materials certified as complying with the indicated requirements shall be provided.
- B. **Products:** Paint materials shall be new and of current manufacture.

2.2 ALTERNATIVE MATERIALS

- A. Where alternative painting systems are indicated, selection from among the alternatives is the CONTRACTOR's option.
- B. Coatings applied under a single paint system shall be the products of a single manufacturer.

2.3 FACTORY MIXING

- A. Paint shall be factory-mixed to the specified color, gloss, and consistency indicated.

2.4 PRIMERS AND FINISH PAINTS

- A. **Primers:** Primers, represented by the symbol below for the associated generic group, shall be the product, known by the tradename, of one of the listed manufacturers (or equal):

<u>Symbol</u>	<u>Generic Group</u>	<u>Manufacturer/Trade Name</u>
P1	Masonry Prime Coat (waterproofing)	Chemstop Heavy Duty Masonry Waterproofing Rainguard Heavy Duty Waterproofing Thompson Heavy Duty Water Seal
P2	Pigmented Wall Primer and Sealer	Pittsburgh Speedhide Primer Sealer SW Wall Primer and Sealer B49W1 Sinclair Pigmented Sealer
P3	Pigmented Vinyl Primer	Pittsburgh Speedhide Vinyl Primer, Pigmented SW Promar Latex Pigmented Wall Primer B28W1 Sinclair Pigmented PVA Sealer
P4	Exterior Wood Primer	Pittsburgh Exterior Wood Primer B46W31 Sinclair Exterior Wood Primer
P5	Enamel Undercoater	Pittsburgh Speedhide Enamel Undercoater SW Enamel Undercoater B49W2 Sinclair Sinco Prime Undercoater

P6	Clear Primer-Sealer	Pittsburgh REZ Clear Primer-Sealer Sinclair Clear Primer-Sealer
P7	Wood Waterproofing	Chemstop Wood Waterproofing Houston Chemical Co., No. 3 Waterproofing
P8	Semi-Transparent Stain	Pittsburgh REZ Semi-Transparent Stain SW Exterior Semi-Transparent Stain A14 Sinclair Stainteke Semi-Transparent Stain

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NTS: Use semi-gloss (preferred) or gloss type of paint. Flat paint should be used only after evaluation and discussion with the Project Manager.

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B. **Finish Paints:** Finish paints, represented by the symbol below for the associated generic group, shall be the product, known by the tradename, of one of the listed manufacturers (or equal):

<u>Symbol</u>	<u>Generic Group</u>	<u>Manufacturer/Trade Name</u>
F1	Latex Flat Wall Paint	Pittsburgh Speedhide Latex Flat Wall SW Promar Latex Flat Wall B30 Series Sinclair Sinwall Vinyl Latex
F2	Semi-Gloss Alkyd Enamel	Pittsburgh Speedhide Semi-Gloss Enamel SW Promar Alkyd Semi-Gloss Enamel B34 Series Sinclair Sinco Satin Enamel
F3	Exterior Latex Finish	Pittsburgh Speedhide Semi-Gloss Enamel SW Promar Exterior Latex B36 Series Sinclair Plast-O-Life
F4	Gloss Alkyd Enamel	Pittsburgh Speedhide Exterior Wood Finish SW Promar Gloss Alkyd Enamel Sinclair Avalon Gloss
F5	Wood Stain	Pittsburgh REZ Wood Tones SW Marc-Not Gloss Varnish A66V5 Sinclair Colormatic Wood Stain

F6 Varnish

Pittsburgh Satin Wood REZ
SW Mar-Not Satin Varnish A66F2
Sinclair Velvet Varnish

2.5 SCHEDULE OF PRIMERS AND FINISHES

- A. **Primers and Finishes:** Primers and finishes shall be applied, as indicated, for exterior and interior WORK in compliance with SSPWC Sub-section 310-5 and this Section.
- B. **Colors:** Colors shall comply with the color selection and the Contract Documents.

<u>Item</u>	<u>1st Coat</u>	<u>2nd Coat</u>	<u>3rd Coat</u>	<u>4th Coat</u>
1. <u>Exteriors</u>				
Exterior Concrete Block Masonry, Waterproofing	P1	P1	--	--
Exterior Wood, Flat	P4	F3	F3	--
Exterior Wood, Stain	P8	P8	--	--
Exterior Wood, Sealer	P7	--	--	--
2. <u>Interiors</u>				
Interior Wall Surfaces, Vinyl Wall Covering	Sealed or Sized	[]	[]	[]
Interior Plaster, Flat	P2	F1	F1	--
Interior Dry Wall, Flat	P3	F1	F1	--
Interior Plaster, Semi-Gloss	P2	F2	F2	--
Interior Drywall, Semi-Gloss	P3	F2	F2	--
Interior Wood, Semi-Gloss	P5	F2	F2	--
Interior Wood, Stain/Varnish	P6	F5	F6	F6
Interior Wood, Stain	P8	P8	--	--

[2.6 EXTRA PAINT MATERIALS

- A. The CONTRACTOR shall furnish [] [1] extra [] [quart] [gallon] of each paint material and color used.]

PART 3 -- EXECUTION

3.1 GENERAL REQUIREMENTS

- A. **Atmospheric Conditions:** Painting shall comply with SSPWC Sub-section 310-1.1 except that painting shall not be applied under the following conditions: (1) when the surrounding air temperature or the temperature of the surface to be coated is below 40 degrees F; (2) to wet or damp surfaces or in rain, fog or mist; (3) when the temperature is less than 5 degrees F above the dewpoint temperatures; (4) when it is expected the air temperature will drop below 40 degrees F, or less than 5 degrees F above the dewpoint within 8 hours after application of coating; or (5) in extreme heat or in dust- or smoke-laden air. Dewpoint shall be determined by use of a sling psychrometer in conjunction with U.S. Department of Commerce Weather Bureau psychrometric tables.
- B. **Workmanship:** Except as otherwise indicated, paint materials shall be applied by brush or roller and in accordance with the manufacturer's instructions. Each coat shall be applied at proper consistency, and shall be free of brush or roller marks, sags, runs or other evidence of poor workmanship. The splattering of paint on glass, hardware, tile, trim, and other surfaces is not permitted. Masking tape shall be applied. Surfaces shall be sanded between enamel coats.
- C. **Coverage Rates:** In no case shall paint application exceed the paint manufacturer's published coverage rate based upon unthinned material. In the event that paint has been extended beyond the recommended coverage, or the "hide" produced is inadequate, additional coats shall be applied. The manufacturer's recommended amount of thinner shall not be exceeded. Finish paint material shall be applied directly from manufacturer's container.
- D. **Protection:** Floors, fixtures, equipment, and similar surfaces shall be protected with impervious protective covers and drop cloths.
- E. **Removal of Finish Hardware:** Finish hardware shall be removed prior to painting and re-installed in compliance with Section 06200.
- F. **Contrasting Colors:** Where painting is to be executed in contrasting colors, edges shall be cut to meet true lines. Holidays and restrikes in painted surfaces shall be sufficient cause for recoating the entire surface involved.
- G. **Barricades:** Barricades and wet paint signs shall be maintained for duration of painting.
- H. **Scaffolds:** Scaffolds, staging, and planking shall be used wherever required for proper painting.

3.2 SURFACE PREPARATION

- A. **Woodwork:** The preparation of woodwork surfaces for which painting is indicated shall comply with SSPWC Sub-section 310-4 and the following:
 - 1. Painted Surfaces shall be sanded smooth and dusted clean. Nail holes, cracks, or other defects shall be carefully filled after prime coat using fill material which

matches the color of the paint. Knots and sappy areas shall be covered with shellac or accepted knot sealer.

2. Fill WORK shall be knifed (thumb filling is not allowed). On painted and enameled WORK, exposed end grain shall be putty-glazed smooth and flush, and shall be allowed to dry before the next coat.

- B. **Ferrous and Galvanized Metal:** Ferrous metal surfaces shall be prepared in compliance with SSPWC Sub-sections 310-2 and 310-3. Surfaces shall be cleaned of rust, scale, grease, oil, and other deleterious matter by wire brushing, scraping, washing with solvent, sandblasting, and other means necessary to prepare surfaces properly for painting. Shop painted ferrous metal surfaces that show rusting when initially installed shall be touched up with a rust inhibitor complying with the requirements of MIL-M-10578B for Phosphoric Acid Rust Inhibitor. Rust inhibitor shall be applied only after wire brushing to a sound surface, and the surface shall be prime coated. Galvanized metals shall be cleaned with suitable organic solvent. Empty containers and paint-soiled or oily rags shall be removed from the site at the end of each day's work.
- C. **Masonry and Concrete:** Masonry and concrete shall be dry and free of dust, dirt, grease, oil, and other foreign matter such as loose or granular material. Holes, cracks, joints and other surface defects shall be repaired and filled out flush and smooth with appropriate products, except where a priming coat is recommended by the manufacturer of the paint. Glaze and loose particles shall be removed by wire brushing. No evidence of curing compounds, release agents and the like will be acceptable.

3.3 APPLICATION

- A. Paint shall be applied in accordance with manufacturer's printed instructions.
- B. Spray painting, where allowed, shall be conducted under controlled conditions, and the CONTRACTOR shall be responsible for damage to adjacent work or adjoining property resulting from spray painting.
- C. Drying times shall not be less than those in manufacturer's printed instructions.
- D. Surfaces found to contain runs, overspray, roughness, or other signs of improper application shall be recoated.
- E. Exposed surfaces behind permanent cabinets, cases, counters, and similar WORK shall be painted prior to installation.
- F. Woodwork shall be sanded smooth and knots and pitch streaks shall be painted with a thick coat of orange shellac or a resin sealer, except for stained wood. Nail holes and minor imperfections shall be filled between first and second coat; color of fill material shall match stain in the case of stained work.
- G. Back surfaces of wood trim and finish that will be concealed after installation, including exposed grounds, and paneling shall be painted prior to installation; the primer indicated for exposed surfaces shall be applied. WORK to receive a natural finish shall be backpainted with one coat of spar varnish. Backpainting shall be omitted on factory finished casework and cabinets.

- H. The number of coats indicated to be applied are minimums. Paint finishes shall be even, of uniform color, and shall be free from cloudy or mottled appearance in surfaces and evident thinness of coatings. Each coat shall be tinted a sufficiently different shade of finish color to permit identification, in accordance with accepted samples.

3.4 REQUIREMENTS OF PAINTING AND FINISHING WORK

- A. **Exterior:** Exposed exterior surfaces of the [] [building] shall be painted and finished in accordance with the indicated requirements. Exposed surfaces of metal, sheet metal, mechanical equipment, and other, as required, shall be painted with the indicated primers and finish of paint.
- B. **Interior:** Exposed interior surfaces of the [building] [] shall be painted and finished in accordance with the indicated requirements and as follows:
 - 1. Exposed surfaces of gypsum wallboard, plaster, and doors and frames, shall be primed and painted as indicated.
 - 2. Metal surfaces in partitions and ceilings such as registers, grilles, and similar items shall be painted to match finish of room or area except as otherwise indicated.
 - 3. Painted doors opening into rooms or spaces with different finishes or colors shall be edge-finished as directed. Closet and storage room doors shall be finished on both sides to match the room into which they open.
- C. **Mechanical and Electrical Work:** Mechanical and electrical products requiring painting shall conform to the requirements of Section 09800 except for the following:
 - 1. Areas behind grilles, baffles, ventilators, and louvers: exposed surfaces, not factory finished, visible from inside and outside of the building shall be painted with appropriate primers and one coat of black semi-gloss (low sheen) enamel paint far enough to conceal such areas and spaces when looking towards them from the floor and ground levels.
 - 2. Pipe Identification: Piping shall be identified according to the requirements of Section 15030.

3.5 INSPECTION AND CLEANING

- A. **General:** The WORK of this Section includes inspection of finishes after painting WORK has been completed. Splatterings of paint materials on adjoining WORK including plumbing fixtures, trim, tile, and finish metal surfaces is not allowed. Abraded, stained, or otherwise disfigured painting WORK shall be touched-up.
- B. Upon completion of the work, staging, scaffolding and containers shall be removed from the site in accordance with Section 01700. Coating spots and oil or stain upon adjacent surfaces shall be removed and the job site cleaned. Damage to adjacent surfaces or facilities resulting from the WORK performed under this Section shall be cleaned, repaired or refinished.

** END OF SECTION **