

SECTION 09 91 00 - PAINTING

PART 1 - GENERAL

1.01 SUMMARY

- A. Work Included: Provide products in accordance with the Contract Documents. The Contract Documents are as defined in the "Agreement". The "General Conditions Governing All Contracts" shall apply to all work under the Contract. The Work of this Section shall include but not be limited to the following:
 - 1. Painting of interior exposed items and surfaces, except as otherwise indicated
 - 2. Surface preparation, priming and coats of paint specified herein, are in addition to shop-priming specified under other sections of work.
- B. Work Not Included:
 - 1. Factory and shop finished items, including shop priming of ferrous metal included under hollow metal work.
 - 2. Concealed surfaces.
 - 3. Operating parts.
- C. Do not paint over any code-required labels, such as Underwriters' Laboratories and Factory Mutual, or any equipment identification, performance rating, name, or nomenclature plates.

1.02 QUALITY ASSURANCE

- A. Single Source Responsibility: Provide primers and other undercoat paint produced by same manufacturer as finish coats. Use only thinners approved by paint manufacturer, and use only within recommended limits.
- B. Coordination of Work: Review other sections of these specifications for prime paints, to ensure compatibility of total coatings system. Upon request from other trades, furnish information of finish materials to be used.
- C. Qualifications: Engage an experienced firm that has recently completed interior Painting projects similar in cost, material, design and extent tot hat indicated by this section and whose work has resulted in construction with a record of successful in-service performance.
- D. All paint/coating products must comply with V.O.C. requirements of the City and Local authorities at place of application. Federal numbers, where specified or referred to, are for guidelines only.

1.03 SUBMITTALS

- A. Product Data: Submit manufacturer's technical information including paint label analysis and application instructions for each material proposed for use.
- B. Samples: Submit representative samples of for Architect's review of color and texture only. Provide a listing of material and application for each coat of each finish sample.
 - 1. Submit on 12" x 12" substrate sample provide two samples of each color and material, with finish and texture to simulate actual conditions. Resubmit samples as requested by Architect until acceptable sheen, color, and texture is achieved.

1.04 MOCK-UP

- A. On actual wall surfaces and other building components, duplicate painted finishes of prepared samples. On at least 500 sq. ft. of surface, provide full-coat finish samples until required sheen, color and texture is obtained. Simulate finished lighting conditions for review of in-place work.

1.05 DELIVERY AND STORAGE

- A. Deliver materials in original, new and unopened packages and containers bearing manufacturer's name and label, and following information:
 - 1. Name or title of material.
 - 2. Fed. Spec. number, if applicable.
 - 3. Manufacturer's stock number and date of manufacture.
 - 4. Manufacturer's name.
 - 5. Contents by volume, for major pigment and vehicle.
 - 6. Thinning and application instructions.
 - 7. Color name and number.
- B. Store materials not in actual use in tightly covered containers. Maintain containers used in storage of paint in a clean condition, free of foreign materials and residue.
 - 1. Protect from freezing where necessary. Keep storage area neat and orderly. Remove oily rags and waste daily. Take all precautions to ensure that workmen and work areas are adequately protected from fire hazards and health hazards resulting from handling, mixing and application of paints.

1.06 JOB CONDITIONS

- A. Apply water-base paints only when temperature of surfaces to be painted and surrounding air are between 50 deg F and 90 deg F, unless otherwise permitted by paint manufacturer.
- B. Apply solvent-thinned paints only when temperature of surfaces to be painted and surrounding air are between 45 deg F and 95 deg F, unless otherwise permitted by paint manufacturer.
- C. Do not apply paint when relative humidity exceeds 85%; or to damp or wet surfaces; unless otherwise permitted by paint manufacturer.

PART 2 - PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS

- A. Manufacturer: Subject to compliance with requirements, provide products of one of the following, or approved equal.
 - 1. Benjamin Moore and Co. (Moore). - recommended
 - 2. PPG Industries, Pittsburgh Paints (P.P.).
 - 3. Sherwin Williams (S-W).
 - 5. Or Approved Equal.

2.02 MATERIALS

- A. Material Quality: Provide best quality grade of coatings as regularly manufactured by acceptable paint manufacturers. Materials not displaying manufacturer's identification as a standard, best-grade product will not be acceptable.
- B. Color Pigments: Pure, non-fading, applicable types to suit substrates and service indicated.
- C. Primers: Provide prime paint as recommended by manufacturer to be compatible with substrate and finish coat.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Examine areas and conditions under which painting work is to be applied and notify Resident Engineer of conditions detrimental to the work. Do not proceed with work until unsatisfactory conditions have been corrected.
- B. Starting of painting work will be construed as acceptance of surfaces and conditions within any particular area.
- C. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions otherwise detrimental to formation of a durable paint film.

3.02 SURFACE PREPARATION

- A. General: Perform preparation and cleaning procedures in accordance with paint manufacturer's instructions and as specified for each substrate.
 - 1. Provide barrier coats over incompatible primers or remove and reprime as required. Notify Resident Engineer in writing of any anticipated problems in using the specified coating systems with substrates primed by others.
 - 2. Remove hardware, plates, lighting fixtures, and similar items not to be finish-painted, or provide surface-applied protection prior to surface preparation and painting operations. Following completion of painting, reinstall removed items.
 - 3. Clean surfaces to be painted before applying paint. Remove oil and grease prior to mechanical cleaning. Program cleaning and painting so that contaminants from cleaning process will not fall onto wet, newly-painted surfaces.

- B. Ferrous Metals: Clean ferrous surfaces, which are not galvanized or shop-coated, of oil, grease, dirt, loose mill scale and other foreign substances by solvent or mechanical cleaning.

1. Touch-up shop-applied prime coats wherever damaged or bare, where required by other sections of these specifications. Clean and touch-up with same type shop primer.
2. Remove loose paint from existing convector enclosure surfaces. Touch-up, fill, sand and prepare convector enclosures and windows to receive paint.

3.03 MATERIALS PREPARATION

- A. Mix and prepare painting materials in accordance with manufacturer's directions.
- B. Maintain containers used in mixing and application of paint in a clean condition, free of foreign materials and residue.
- C. Stir materials before application to produce a mixture of uniform density, and stir as required during application. Do not stir surface film into material. Remove film and, if necessary, strain material before using.

3.04 APPLICATION

- A. General: Apply paint in accordance with manufacturer's directions. Use applicators and techniques best suited for substrate and type of material being applied.
1. Paint colors, surface treatments, and finishes, are indicated in "schedules" of the contract documents.
 2. Provide finish coats which are compatible with prime paints used.
 3. Apply additional coats when undercoats or other conditions show through final coat of paint, until 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 equal to flat surfaces.
 4. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Paint surfaces behind permanently fixed equipment or furniture with prime coat only before final installation of equipment.
 5. Paint interior surfaces of ducts, where visible through registers or grilles, with a flat, non-specular black paint.
 6. Paint back sides of access panels, and removable or hinged covers to match exposed surfaces.
 7. Sand lightly between each succeeding enamel or varnish coat.
 8. Omit first coat (primer) on metal surfaces which have been shop-primed and touch-up painted, unless otherwise indicated.
- B. Scheduling Painting: Apply first-coat material to surfaces that have been cleaned, or otherwise prepared as soon as practicable after preparation and before subsequent surface deterioration.
1. Allow sufficient time between successive coatings to permit proper drying. Do not recoat until paint has dried to where it feels firm, does not deform or feel sticky under moderate thumb pressure, and application of another coat of paint does not cause lifting or loss of adhesion of the undercoat.
- C. Minimum Coating Thickness: Apply materials at not less than manufacturer's recommended spreading rate, to establish a total dry film thickness as recommended by coating manufacturer.

- D. Mechanical and Electrical Work: Painting of mechanical and electrical work is limited to those items exposed in occupied spaces.
- E. Prime Coats: Apply prime coat on material which has not been prime coated by others.
 - 1. Recoat defects in primed and sealed surfaces, to assure a finish coat with no burn-through or other defects due to insufficient sealing.
- F. Pigmented (Opaque) Finishes: Provide an opaque, smooth surface of uniform finish, color, appearance and coverage. Cloudiness, spotting, fish eyes, holidays, laps, brush marks, runs, sags, ropiness or other surface imperfections will not be acceptable.
- G. Completed Work: Match approved samples for color, texture and coverage. Remove, refinish or repaint work not in compliance with specified requirements.

3.05 CLEAN-UP AND PROTECTION

- A. Clean-Up: During progress of work, remove from site discarded paint materials, rubbish, cans and rags at end of each work day. Upon completion of painting work, clean window glass and other paint-spattered surfaces. Remove spattered paint by proper methods of washing and scraping, using care not to scratch otherwise damage finished surfaces.
- B. Protection: Protect work of other trades against damage by painting and finishing work. Correct any damage by cleaning, repairing or replacing, and repainting, as acceptable to Resident Engineer.
 - 1. Provide "Wet Paint" signs to protect newly-painted finishes. Remove temporary protection after completion of painting.
 - 2. At completion of work of other trades, touch-up and restore all damaged or defaced surfaces.

3.06 INTERIOR PAINT SCHEDULE

- A. General: Provide following interior paint systems, or approved equal, as selected by Architect. Ceilings to be flat finish; walls (except at bathroom) to be eggshell finish; walls at bathroom to be semi-gloss finish; painted woodwork to be semi-gloss finish.
- B. Drywall and Plaster:
 - 1. Acrylic Latex, Flat Finish: Factory-formulated flat acrylic-emulsion latex paint for interior application, applied at a dry film thickness of not less than 1.3 mils with a degree of gloss between 2-5. (Interior Drywall Ceiling – New Work and Painted)
 - a. Primer Coat: Interior wall primer equal to Benjamin Moore's Regal Premium Interior Latex Primer & Underbody #N216.
 - b. Two Coats: Acrylic latex paint equal Benjamin Moore Regal Select Flat Finish Wall Satin #547.

2. Acrylic Latex, Eggshell (low-luster) Finish: Factory-formulated eggshell acrylic-latex interior enamel, applied at a dry film thickness of not less than 1.4 mil with a degree of gloss between 7-15. (Interior Plaster and Drywall – New Work or Painted)
 - a. Primer Coat: Interior wall primer equal to Benjamin Moore's Regal Premium Interior Latex Primer & Underbody #N216 for New Work OR Spot Prime – Moorcraft Enamel Undercoater & Primer Sealer #253 for Previously Painted Surfaces.
 - b. Two Coats: Acrylic latex paint equal to Benjamin Moore Regal Eggshell #549
 3. Acrylic Enamel, Satin (Pearl): Factory-formulated pearl acrylic-latex interior enamel for interior application, applied at a dry film thickness of not less than 1.3 mils with a degree of gloss between 15-20. (Interior Plaster and Drywall – New Work or Painted where indicated)
 - a. Primer Coat: Interior wall primer equal to Benjamin Moore's Regal Premium Interior Latex Primer & Underbody #N216 for New Work OR Spot Prime – Moorcraft Enamel Undercoater & Primer Sealer #253 for Previously Painted Surfaces.
 - b. Two Coats: Acrylic latex paint equal to Benjamin Moore Regal Select Pearl Finish #550
 4. Acrylic Enamel, Semi-Gloss Finish: Factory-formulated semigloss acrylic-latex interior enamel for interior application, applied at a dry film thickness of not less than 1.3 mils with a degree of gloss between 40-55. (Interior Plaster and Drywall – New Work or Painted where indicated)
 - a. Primer Coat: Interior wall primer equal to Benjamin Moore's Regal Premium Interior Latex Primer & Underbody #N216 for New Work OR Spot Prime – Moorcraft Enamel Undercoater & Primer Sealer #253 for Previously Painted Surfaces.
 - b. Two Coats: Acrylic latex paint equal to Benjamin Moore Regal Select Semi-Gloss #551.
- C. Previously Painted Concrete, Masonry, Stucco: Verify existing substrate condition and paint type.
1. Acrylic Enamel, Satin/Semi-Gloss Finish: Factory-formulated flat acrylic-emulsion latex paint for interior application, applied at a dry film thickness of not less than 1.3 mils with a degree of gloss between 40-55.
 - a. Primer Coat: Interior wall primer equal to Benjamin Moore's Fresh Start All Purpose 100% Acrylic Primer #023
 - b. Two Coats: Acrylic latex paint equal Benjamin Moore Regal Select Semi-Gloss #551.
- D. Interior Wood Trim, Cabinets & Doors - New and Painted:
1. Acrylic Enamel, Semi-Gloss Finish: Factory-formulated semigloss acrylic-latex interior enamel for interior application, applied at a dry film thickness of not less than 1.3 mils with a degree of glass between 40-55.
 - a. Primer Coat: Primer equal to Benjamin Moore's Fresh Start All Purpose 100% Acrylic Primer #023.
 - b. Two Coats: Acrylic latex paint equal Benjamin Moore Regal Select Semi-Gloss #551.

E. Ferrous Metal – New and Painted: For painted surfaces, verify substrate paint type.

1. Alkyd Enamel, Satin Finish:

- a. Primer Coat: Primer equal to Benjamin Moore's D.T.M. Semi-Gloss #HP26.
- b. Two Coats: Regal Select Semi-Gloss Enamel #551.

F. Galvanized Metal – New and painted:

1. Latex Enamel, Satin Finish:

- a. Primer Coat: Primer equal to Benjamin Moore's D.T.M. Semi-Gloss #HP29.
- b. Two Coats: Regal Select Semi-Gloss Enamel #551.

3.07 PAINT COLOR SCHEDULE

A. Colors and Locations: As indicated on Finish Schedule and Elevations.

END OF SECTION