
Construction Specification

PART 1 - GENERAL

1.01 SUMMARY

- A. Work described in this section includes:
 - 1. Touching up of shop applied prime coats.
 - 2. Preparation of surfaces to receive finish.
 - 3. Priming and back-priming of millwork.
 - 4. Painting, staining or finishing of surfaces as specified herein.

1.02 REFERENCES:

- A. ASTM D4258: Standard Practice for Cleaning Concrete.
- B. ASTM D4259: Standard Practice for Abrading Concrete.
- C. ASTM D4263: Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method

1.03 SUBMITTALS

- A. Product List:
 - 1. Submit color samples to Architect of Record.
 - 2. Submit a complete list of products proposed for use at least 45 days prior to commencement of painting work.
 - 3. Use of products specified herein does not relieve contractor from responsibility of submitting product list.
- B. Product Data Sheets:
 - 1. Submit manufacturer's Product Data Sheets outlining the practical square foot coverage per gallon, minimum specified dry film thickness, percent solids per volume and the number of gallons required to meet the specified dry film thickness.

1.04 JOB CONDITIONS

- A. Environmental Requirements:
 - 1. Comply with manufacturer's recommendations as to environmental conditions under which materials may be applied.
 - 2. Apply no materials in spaces where dust is being generated.
- B. Protection: Cover and protect finished work of other trades and surfaces not being painted concurrently or not to be painted.
 - 1. Mask off skylights (where applicable), nameplates, equipment identifications and similar items. Cover sprinkler heads with plastic bags and protect moving parts during painting. Remove all protective coverings at the completion of painting activity.
- C. Safety Precautions:
 - 1. Provide temporary fire protection equipment in materials storage area.
 - 2. Prohibit smoking in storage area.

1.05 CONTRACTOR'S RESPONSIBILITY

- A. The contractor shall study the contract, drawings and specifications with regard to the work as shown and required under this Section as to insure its completeness.
- B. Contractor shall be responsible to ensure that ALL surfaces receiving subsequent finish or coatings are prepared in accordance with manufacturer's recommendations. Contractor and his subcontractors shall require that a representative of the manufacturer inspect and approve the surface preparation prior to application of his product. Contractor shall immediately, give written notice of any incompatibilities between materials or surfaces.

1.06 WARRANTY

- A. The paint for the Orange Strip shall be guaranteed for seven (7) years. Prior to final closeout, the General Contractor must obtain a warranty kit (available from ICI Paints National Account Manager) and certify in writing that he has met the required paint specification.
- B. General Contractor is required to ensure any and all Subcontractors performing work covered under warranty are following the guidelines set forth by ICI Paints.

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1. General Contractor is responsible for ensuring the Warranty Process is followed as described in the New Store Paint Program Guide supplied to the General Contractor by the ICI Account Manager. All forms and procedures must be followed in order to obtain warranty documentation from ICI Paints.
2. Certification of warranty will be given to the General Contractor only if all conditions are met under the guidelines set forth in the Warranty Program of the New Store Paint Program Guide supplied to the General Contractor by the ICI Account Manager.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Acceptable Paint Manufacturer:
 1. Sherwin Williams or similar.
 2. Standard of quality: The standard of quality shall be paint manufactured.
 3. Materials furnished shall be installed providing the dry film thickness recommended by the manufacturer.
- B. Acceptable stain manufacturer:
 1. Sherwin Williams or similar.
- C. Where products other than those of the manufacturer listed as the standard of quality are specified in Paint Schedule, these products have been selected to achieve specific results and substitutions will not be allowed as specified under "Quality Criteria" above.
- D. Miscellaneous Materials:
 1. Paint Thinners and Tints shall be products of same manufacturer as paint or approved by him for use with his products.
 2. Shellac, turpentine and patching compound materials for execution of work shall be pure, best quality products.
- E. All products furnished in this section shall be VOC compliant for building location.

2.02 COLORS

- A. Paint colors shall be as indicated on the Drawings, and/or owners approved.
- B. Manufacturer has specified color formulas for the colors indicated on the drawings and it is the responsibility of the Contractor to ensure the paint supplied matches the reference drawings in all respects to these colors. Contractors shall contact the manufacturer-for further information prior to bidding.

2.03 MIXING AND TINTING

- A. Deliver paint products ready-mixed to job site.
- B. Paint shall be well ground, shall not settle, cake or thicken in the container, shall be broken with a paddle to a smooth consistency.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Examine surfaces with representative of paint manufacturer, designated to receive work described in this section for conditions adversely affecting the finished work, which cannot be corrected under "preparation" requirements specified herein. Repair or replace surfaces not meeting tolerance or quality requirements imposed within specifications governing substrate construction prior to initiating this work.

3.02 PREPARATION

- A. Wood Surfaces:
 1. For Painted Surfaces: Fill all nail holes, cracks, joints and defects prior to first coat of paint. Match finish paint color.
 2. For Natural or Stain Finish: Fill nail holes, cracks, joints, and defects with wood filler. Match finish color.
 3. Sand surfaces even and smooth and dust or vacuum.
 4. Clean soiled surfaces just prior to painting.
 5. Apply shellac, not more than two pounds cut to knots, pitch and resinous sapwood before applying prime coat.
- B. Gypsum Drywall:
 1. Fill narrow, shallow cracks and small holes and drywall joint compound or patching plaster. Allow to dry.
 2. Sand smooth without raising nap of paper on wallboard.

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- C. Concrete Unit Masonry:
 - 1. Rub block to remove loose mortar.
 - 2. Fill irregularities with cement grout. (No latence or efflorescence)
- D. Ferrous Metals:
 - 1. All unpainted surfaces shall be prepared in accordance with SSPC-SP 2 & 3, "Hand and Power Tool" cleaning.
 - 2. All primed surfaces showing a gloss shall be sanded or brushed to a dull surface to provide a profile for mechanical bonding of succeeding coat.
 - 3. Wash surfaces with non-ammoniated cleaner.
- E. Concrete:
 - 1. Pre-Surface Preparation:
 - a. New concrete should be allowed to cure a minimum of 28 days or meet the requirements of ASTM D4263-83. Surface laitance must be removed so as to expose aggregate.
 - 2. Cleaning:
 - a. Concrete must free of grease, oils, coatings, dust, curing compounds and other contaminants in accordance with ASTM D4258-83.
 - b. Concrete shall be abrasively cleaned by an abrasive blast cleaning procedure in accordance with ASTM D4259-88, section 8
 - c. The surface profile is not to exceed 1/8" (peak to valley) or as required to maintain intended profile as specified in drawings. Minor surface area deterioration of 1/8" or greater shall be repaired to minimize excessive material usage. Preparation by mechanically abrading in accordance with ASTM 4259-88, section 6 is acceptable subject manufacturers approval.
 - d. Edges and other areas inaccessible to the abrasive blast equipment should be prepared using a handheld surface scabblers with vacuum attachment.
 - e. For wet application, allow the surface to dry thoroughly for a minimum of 24 to 48 hours after rinsing prior to painting.
 - 3. Inspection:
 - a. After cleaning remove defective concrete, honeycombs, cavities, joint crack voids and other defects by routing to sound material. To repair small areas in concrete, use a suitable epoxy mortar. For larger areas, use cementitious patching materials which are compatible with the system. Patching should be finished flush with the surrounding concrete. All patched areas should be given a light brush blast prior to painting.
 - b. Verify the porosity of the concrete substrate using a pump-up sprayer and water. The water should uniformly soak into and darken the surface and not "bead up". Failure to do so is an indication that additional surface preparation is required.
 - c. Check Using a pH pencil, check the pH of the concrete panels, as well as, concrete patches and sacking materials. pH level must be 10.0 or lower.
- F. Galvanized Metal: Wash with non-ammoniated cleaner and wipe dry with clean cloth.
- G. Aluminum: Wash with non-ammoniated cleaner and wipe dry with clean cloth.
- H. Railings:
 - 1. After railing system has been assembled, all connections shall be ground smooth using SSPC-SP-3 power tool method.
- I. Rooftop Gas Piping: SSPC-SP3 Power Tool Cleaning leaving a surface profile.

3.03 APPLICATION

- A. Test surfaces with moisture meter prior to application of first paint coat. Apply paint only when moisture content is within manufacturer's recommended limits.
- B. Apply paint materials using clean brushes, rollers or spraying equipment.
- C. Apply materials at a rate not exceeding that recommended by paint manufacturer for surface being painted, less ten percent of losses.
- D. Comply with manufacturer's recommendations for drying time between coats.
- E. Vary slightly the color of successive coats.
- F. Sand and dust between coats to remove defects visible from a distance of five feet.
- G. Finish coats shall be smooth, free of brush marks, streaks, laps or pile-up of paint, skipped or missed areas.
- H. Inspection:

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1. Do not apply additional coats until General Contractor has inspected completed coat.
 2. Only inspected coats of paint will be considered by determining number of coats applied.
- I. Make edges of paint adjoining other materials or colors clean and sharp with no overlapping.
 - J. Where portion of finish is damaged or unacceptable, refinish entire surface of wall.
 - K. Backprime woodwork with material specified for prime coat, without runs on face.
 - L. Paint ductwork where visible.
 - M. Paint tops and bottoms of interior doors with prime coat only; paint edges same as faces of doors.
 - N. Finish all edges of exterior doors same as faces.
 - O. Paint exposed pipes conduit, electric boxes and ductwork in occupied areas same as adjacent wall or roof surfaces.
 - P. Where bright colors are indicated on the plans apply additional coats of paint to cover the surface with a uniform coloring.
 - Q. The specified dry film thickness must be met. Apply additional coats as needed to achieve minimum total specified dry film thickness of the Paint System.
 - R. Follow label instruction for application.
 - S. Follow Product Data sheet / label requirements concerning application in cold weather environment. Special products or instructions may be required if air temperature is less than 50 degrees F (10 degrees C) at application.

3.04 CLEANING

- A. Touch up and restore finish where damaged.
- B. Remove spilled, splashed or splattered paint from all surfaces.
- C. Do not mar surface finish of item being cleaned.
- D. Leave storage space clean and in condition of equivalent space in project.

3.05 PAINTING SCHEDULE

- A. Surface not requiring painting or staining:
 1. Face brick, ceramic tile, glass, aluminum, brass, bronze, stainless steel, plastic, copper and rubber.
 2. Pre-finished surfaces, unless noted otherwise.
 3. Concealed ductwork, conduit and piping.
 4. Exposed galvanized ductwork and steel structure in membrane structure.
 5. Galvanized dry system sprinkler piping
 6. Overhead electrical track busways
- B. Required total Dry Film Thickness (DFT): The DFT shall be the minimum required dry film thickness as measured in mils for each painting system on various substrates.

END OF SECTION