

SECTION 099123
INTERIOR PAINTING

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The specifications sections "General Conditions of the Construction Contract", "Special Conditions", and "Division 1 - General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SUMMARY

- A. Section includes surface preparation and the application of paint systems on interior substrates:
 - 1. Gypsum board.
 - 2. Gypsum plaster.
 - 3. Hollow metal doors and frames.
 - 4. CMU (concrete masonry units).

1.3 SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
- B. Samples for Verification: For each type of paint system and in each color and gloss of topcoat.
 - 1. Submit Samples on rigid backing, 8 inches square.
 - 2. Step coats on Samples to show each coat required for system.
 - 3. Label each coat of each Sample.
 - 4. Label each Sample for location and application area.
- C. Product List: For each product indicated, include the following:
 - 1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.
 - 2. VOC content.

1.4 QUALITY CONTROL

- A. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. The Professional will select one surface to represent surfaces and conditions for application of each paint system specified in Part 3.
 - a. Vertical and Horizontal Surfaces: Provide samples of at least 100 sq. ft.
 - b. Provide one mock-up for each paint color.
2. Final approval of color selections will be based on mockups. Do not order paint materials until mock-ups have been approved.
3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Professional specifically approves such deviations in writing.
4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg. F.
 1. Maintain containers in clean condition, free of foreign materials and residue.
 2. Remove rags and waste from storage areas daily.

1.6 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 deg. F.
- B. Do not apply paints when relative humidity exceeds 85 percent, at a temperature less than 5 deg. F above the dew point, or to damp or wet surfaces.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide basis-of-design product listed or an equal product by one of the following, or equivalent manufacturer as approved by the Professional:
 1. Benjamin Moore & Co.
 2. ICI Paints.
 3. M.A.B. Paints.
 4. PPG Architectural Finishes, Inc.
 5. Pratt & Lambert.

2.2 PAINT, GENERAL

- A. Material Compatibility:
 1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.

2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.
- B. VOC Content: Products shall comply with VOC limits of authorities having jurisdiction and, for interior paints and coatings applied at Project site, the following VOC limits, exclusive of colorants added to a tint base, when calculated according to 40 CFR 59, Subpart D (EPA Method 24).
1. Flat Paints and Coatings: 50 g/L.
 2. Non-flat Paints and Coatings: 150 g/L.
 3. Dry-Fog Coatings: 400 g/L.
 4. Primers, Sealers, and Undercoaters: 200 g/L.
 5. Anticorrosive and Antirust Paints Applied to Ferrous Metals: 250 g/L.
 6. Zinc-Rich Industrial Maintenance Primers: 340 g/L.
 7. Pretreatment Wash Primers: 420 g/L.
 8. Floor Coatings: 100 g/L.
 9. Shellacs, Clear: 730 g/L.
 10. Shellacs, Pigmented: 550 g/L.
- C. Colors: Match Professional's samples.
1. Basis-of-Design Manufacturer: Benjamin Moore.
 - a. P-1: 185 "Precious Ivory."
 - b. P-2: Provide custom color to match wood door trim.
 - c. P-3: OC-17 "White Dove."
 - d. P-4: AF-655 "Silhouette."

2.3 PRIMERS/SEALERS

- A. Primer Sealer, Latex, Interior: ILP-1.
1. Loxon[®] Concrete and Masonry Primer; Sherwin Williams, or equal as approved by the Professional from one of the other manufacturers listed.
- B. Block Filler, Latex, Interior: ILP-2.
1. Prep Rite Block Filler; Sherwin Williams, or equal as approved by the Professional from one of the other manufacturers listed.

2.4 WATER-BASED PAINTS

- A. Latex, Interior, Flat: IL-1.
1. Super Paint[®] Interior Latex Flat; Sherwin Williams, or equal as approved by the Professional from one of the other manufacturers listed.
 2. For use on interior ceilings and other areas as noted.
- B. Latex, Interior, Egg-Shell: IL-2.
1. Super Paint[®] Interior Latex Eg-Shel; Sherwin Williams, or equal as approved by the Professional from one of the other manufacturers listed.

C. Latex, Semi-Gloss: IL-3.

1. Super Paint® Interior Latex Semi-Gloss; Sherwin Williams, or equal as approved by the Professional from one of the other manufacturers listed.

2.5 DIRECT TO METAL PAINT

A. Direct to Metal Acrylic Paint: DTM-1.

B. Pro Industrial DTM Acrylic Coating Semi-Gloss; Latex, Interior, Egg-Shell: IL-2.

1. Super Paint® Interior Latex Eg-Shel; Sherwin Williams, or equal as approved by the Professional from one of the other manufacturers listed.

2.6 SOURCE QUALITY CONTROL

A. Testing of Paint Materials: Department reserves the right to invoke the following procedure:

1. The Department will engage the services of a qualified testing agency to sample paint materials. The Contractor will be notified in advance and may be present when samples are taken. If paint materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
2. The testing agency will perform tests for compliance with product requirements.
3. Department may direct Contractor to stop applying coatings if test results show materials being used do not comply with product requirements. The Contractor shall remove noncomplying paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. The Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.

B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:

1. Wood: 15 percent.
2. Gypsum Board: 12 percent.

C. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.

D. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.

E. Proceed with coating application only after unsatisfactory conditions have been corrected.

1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates indicated.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and re-prime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.
- D. Existing Gypsum Plaster:
 - 1. Clean surfaces in accordance with paint manufacturer's written instructions.
 - 2. Scrape and remove all existing peeling and blistering paint. Sand to feather edges so blisters/peels are not visible when new paint is applied.
- E. Hollow Metal Frames and Doors:
 - 1. Lightly sand all surfaces.
 - 2. Fill depressions with auto body filler and sand smooth.

3.3 APPLICATION

- A. Apply paints according to manufacturer's written instructions and to recommendations in "MPI Manual."
 - 1. Use applicators and techniques suited for paint and substrate indicated.
 - 2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
 - 3. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
 - 4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
 - 5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.
- B. Tint each undercoat a lighter shade to facilitate identification of each coat if multiple coats of same material are to be applied. Tint undercoats to match color of topcoat but provide sufficient difference in shade of undercoats to distinguish each separate coat.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.

- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.

3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.
 - 1. Contractor shall touch up and restore painted surfaces damaged by testing.
 - 2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Professional, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 INTERIOR PAINTING SCHEDULE

- A. Gypsum Board Substrates:
 - 1. Latex System:
 - a. Prime Coat: One coat ILP-1.
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - 1) Walls: One coat IL-2.
 - 2) Ceilings: One coat IL-1.
 - c. Topcoat:
 - 1) Walls: One coat IL-2.
 - 2) Ceilings: One coat IL-1.

B. Gypsum Plaster Substrates:

1. Latex System:

a. Intermediate Coat: Latex, interior, matching topcoat.

- 1) Walls: One coat IL-2.
- 2) Ceilings: One coat IL-1.

b. Topcoat:

- 1) Walls: One coat IL-2.
- 2) Ceilings: One coat IL-1.

C. Hollow Metal Frames and Doors:

1. Latex System:

- a. Prime Coat: Touch-up factory prime coat.
- b. Intermediate Coat: DTM-1.
- c. Top Coat: DTM-1.

D. Concrete Masonry Unit Walls:

1. Latex System:

- a. Prime Coat: ILP-2.
- b. Intermediate Coat: IL-3.
- c. Top Coat: IL-3.

END OF SECTION 099123