

SECTION 09912 - INTERIOR PAINTING

- A. This Section includes surface preparation and the application of paint systems on the following interior substrates:
 1. Concrete.
 2. Concrete masonry units (CMU).
 3. Steel.
 4. Galvanized metal.
 5. Wood.
 6. Gypsum board.
- B. Product Data For each type of product indicated for approval.
- C. Submit samples for each finish and for each color and texture required.
- D. Product List: Printout of current "MPI Approved Products List" for each product category specified in Part 2, with the proposed product highlighted.
- E. MPI Standards:
 1. Products: Complying with MPI standards indicated and listed in "MPI Approved Products List."
 2. Preparation and Workmanship: Comply with requirements in "MPI Architectural Painting Specification Manual" for products and paint systems indicated.
- F. Mockups: Apply benchmark samples 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. Architect will select one surface to represent surfaces and conditions for application of each paint system specified in Part 3.
 - a. Wall and Ceiling Surfaces: Provide samples of at least 100 sq. ft. (9 sq. m).
 - b. Other Items: Architect will designate items or areas required.
 2. Apply benchmark samples after permanent lighting and other environmental services have been activated.
 3. Final approval of color selections will be based on benchmark samples.
 - a. If preliminary color selections are not approved, apply additional benchmark samples of additional colors selected by Architect at no added cost to Owner.
- G. Furnish extra materials described below that are from same production run (batch mix) as materials applied and that are packaged for storage and identified with labels describing contents.
 1. Quantity: Furnish an additional 5 percent, but not less than 1 gal. (3.8 L) of each material and color applied.
 - Material Compatibility:
 2. 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.
 3. 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.
- H. Chemical Components of Field-Applied Interior Paints and Coatings: Provide products that comply with the following limits for VOC content, exclusive of colorants added to a tint base, when calculated according to 40 CFR 59, Subpart D (EPA Method 24) and the following chemical restrictions; these requirements do not apply to primers or finishes that are applied in a fabrication or finishing shop:
 1. Flat Paints and Coatings: VOC content of not more than 50 g/L.
 2. Nonfat Paints and Coatings: VOC content of not more than 150 g/L.
 3. Aromatic Compounds: Paints and coatings shall not contain more than 1.0 percent by weight of total aromatic compounds (hydrocarbon compounds containing one or more benzene rings).
 4. Restricted Components: Paints and coatings shall not contain any of the following:
 - a. Acrolein
 - b. Acrylonitrile
 - c. Antimony
 - d. Benzene
 - e. Butyl benzyl phthalate
 - f. Cadmium
 - g. Di (2-ethylhexyl) phthalate
 - h. Di-n-butyl phthalate
 - i. Di-n-octyl phthalate
 - j. 1,2-dichlorobenzene
 - k. Diethyl phthalate
 - l. Dimethyl phthalate
 - m. Ethylbenzene
 - n. Formaldehyde
 - o. Hexavalent chromium
 - p. Isophorone
 - q. Lead
 - r. Mercury
 - s. Methyl ethyl ketone.
 - t. Methyl isobutyl ketone.
 - u. Methylene chloride.
 - v. Naphthalene.
 - w. Toluene (methylbenzene).
 - x. 1,1,1-trichloroethane.
 - y. Vinyl chloride.
 - z. Xylene
- I. Colors: Match Architect's samples.
- J. Block Fillers: Interior/Exterior Latex Block Filler: MPI #4.
- K. Primers/Sealers: Interior Latex Primer/Sealer: MPI #50.
- L. Metal Primers:
 1. Alkyd Anticorrosive Metal Primer: MPI #79.
 2. Waterborne Galvanized-Metal Primer: MPI #134.
 3. Quick-Drying Primer for Aluminum: MPI #95.
- M. Wood Primers: Interior Latex-Based Wood Primer: MPI #39.
- N. Latex Paints:
 1. Interior Latex (Flat): MPI #53 (Gloss Level 1).
 2. Interior Latex (Low Sheen): MPI #44 (Gloss Level 2).
 3. Interior Latex (Eggshell): MPI #52 (Gloss Level 3).
 4. Interior Latex (Semigloss): MPI #54 (Gloss Level 5).
 5. High-Performance Architectural Latex (Low Sheen): MPI #138 (Gloss Level 2).
 6. High-Performance Architectural Latex (Eggshell): MPI #139 (Gloss Level 3).
 7. High-Performance Architectural Latex (Satin): MPI #140 (Gloss Level 4).
 8. Exterior Latex (Flat): MPI #10 (Gloss Level 1).
 9. Exterior Latex (Semigloss): MPI #11 (Gloss Level 5).

SECTION 09912 - CONTINUED

- O. Dry Fog/Fall Coatings:
 1. Latex Dry Fog/Fall: MPI #118 2. Waterborne Dry Fall: MPI #133 3. Interior Alkyd Dry Fog/Fall: MPI #55.
- P. Aluminum Paint:
 1. Aluminum Paint: MPI #1.
- Q. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of work.
- R. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 1. Concrete: 12 percent.
 2. CMU: 12 percent.
 3. Wood: 15 percent.
 4. Gypsum Board: 12 percent.
- S. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- T. Begin coating application only after unsatisfactory conditions have been corrected and surfaces are dry.
 1. Beginning coating application constitutes Contractor's acceptance of substrates and conditions.
- U. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates indicated.
- V. Clean substrates of substances that could impair bond of paints, including dirt, oil, grease, and incompatible paints and encapsulants.
 1. Remove incompatible primers and reprime substrate with compatible primers as required to produce paint systems indicated.
- W. 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.
- X. Painting Mechanical and Electrical Work: Paint items exposed in equipment rooms and occupied spaces including, but not limited to, the following:
 1. Mechanical Work:
 - a. Uninsulated metal piping.
 - b. Uninsulated plastic piping.
 - c. Pipe hangers and supports.
 - d. Tanks that do not have factory-applied final finishes.
 - e. Mechanical equipment that is indicated to have a factory-primed finish for field painting.
 2. Electrical Work:
 - a. Panelboards.
 - b. Electrical equipment that is indicated to have a factory-primed finish for field painting.
- Y. 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 Architect, and leave in an undamaged condition.
- Z. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.
- AA. Concrete Substrates, Nontraffic Surfaces:
 1. Latex Over Sealer System: MPI INT 3.1A.
 - a. Prime Coat: Interior latex primer/sealer
 - b. Intermediate Coat: Interior latex matching topcoat
 - c. Topcoat: Interior latex sheen to be provided by Architect.
- BB. CMU Substrates:
 1. Latex System: MPI INT 4.2A.
 - a. Prime Coat: Interior/exterior latex block filler
 - b. Intermediate Coat: Interior latex matching topcoat
 - c. Topcoat: Interior latex to be provided by Architect.
- CC. Steel Substrates:
 1. Latex Over Alkyd Primer System: MPI INT 5.1Q.
 - a. Prime Coat: Alkyd anticorrosive metal primer.
 - b. Intermediate Coat: Interior latex matching topcoat.
 - c. Topcoat: Interior latex sheen to be provided by Architect.
- DD. Galvanized-Metal Substrates:
 1. Latex Over Waterborne Primer System: MPI INT 5.3J.
 - a. Prime Coat: Waterborne galvanized-metal primer.
 - b. Intermediate Coat: Interior latex matching topcoat.
 - c. Topcoat: Interior latex sheen to be provided by Architect.
- EE. Aluminum (Not Anodized or Otherwise Coated) Substrates:
 1. Latex System: MPI INT 5.4H.
 - a. Prime Coat: Quick-drying primer for aluminum.
 - b. Intermediate Coat: Interior latex matching topcoat.
 - c. Topcoat: Interior latex sheen to be provided by Architect.
- FF. Dressed Lumber Substrates: Including architectural woodwork, doors.
 1. High-Performance Architectural Latex System: MPI INT 6.3A.
 - a. Prime Coat: Interior latex-based wood primer.
 - b. Intermediate Coat: High-performance architectural latex matching topcoat.
 - c. Topcoat: High-performance architectural latex sheen to be provided by Architect.
- GG. Wood Panel Substrates: Including painted plywood.
 1. Latex System: MPI INT 6.4R.
 - a. Prime Coat: Interior latex-based wood primer.
 - b. Intermediate Coat: Interior latex matching topcoat.
 - c. Topcoat: Interior latex sheen to be provided by Architect.
 2. Latex System: MPI INT 9.2A.
 - a. Prime Coat: Interior latex matching topcoat.
 - b. Intermediate Coat: Interior latex matching topcoat.
 - c. Topcoat: Interior latex sheen to be provided by Architect.
- HH. Gypsum Board Substrates:
 1. Latex System: MPI INT 9.2A.
 - a. Prime Coat: Interior latex primer/sealer
 - b. Intermediate Coat: Interior latex matching topcoat
 - c. Topcoat: Interior latex sheen to be provided by Architect.

END OF SECTION 09912



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