

**SECTION 09 91 23
INTERIOR PAINTING**

PART 1 - GENERAL

1.01 REFERENCE STANDARDS

- A. ASTM D523 - Standard Test Method for Specular Gloss; 2014 (Reapproved 2018).

1.02 SUMMARY

- A. Section includes surface preparation and the application of paint systems on interior substrates.
 - 1. Concrete.
 - 2. Concrete masonry units (CMU).
 - 3. Ferrous Metals.
 - 4. Cast iron.
 - 5. Galvanized metal.
 - 6. Aluminum (not anodized or otherwise coated).
 - 7. Wood.
 - 8. Gypsum board.
 - 9. Plaster.
- B. Enterprise Green Communities Criteria
 - 1. Criteria 6.4: Low/No VOC Paints and Primers

1.03 DEFINITIONS

- A. Gloss Level 1: Not more than 5 units at 60 degrees and 10 units at 85 degrees, according to ASTM D523.
- B. Gloss Level 2: Not more than 10 twits at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D523.
- C. Gloss Level 3: 10 to 25 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D523.
- D. Gloss Level 4: 20 to 35 units at 60 degrees and not less than 35 units at 85 degrees, according to ASTM D523.
- E. Gloss Level 5: 35 to 70 units at 60 degrees, according to ASTM D523.
- F. Gloss Level 6: 70 to 85 units at 60 degrees, according to ASTM D523.
- G. Gloss Level 7: More than 85 units at 60 degrees, according to ASTM D523.

1.04 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
- B. Samples: For each type of paint system and in each color and gloss of topcoat.
- C. Product List: For each product indicated. Include printout of current "MPI Approved Products List" for each product category specified in Part 2, with the proposed product highlighted.

1.05 INFORMATIONAL SUBMITTALS

- A. Product Data: Documentation for compliance with Enterprise Green Communities criteria.

1.06 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials, from the same product run, that match products Stalled and that are packaged with protective covering for storage and identified with labels describing contents.
- B. Paint: 5 percent, but not less than 1 gal. of each material and color applied.

1.07 QUALITY ASSURANCE

- 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. Architect will select one surface to represent surfaces and conditions for application of each paint system specified in Part 3.
 - a. Vertical and Horizontal Surfaces: Paint one complete model apartment for approval by Architect, before proceeding with the work. Prior to occupancy, this apartment shall be repainted, unless otherwise directed by the Architect.
 - b. Other Items: Architect will designate items or areas required.
 - 2. Final approval of color selections will be based on mockups.
 - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Products: Subject to compliance with requirements, available products that may be incorporated into the Work include, but are not limited to products listed in other Part 2 articles for the paint category indicated.

2.02 PAINT, GENERAL

- A. MPI Standards: Provide products that comply with MPI standards indicated and that are listed in its "MN Approved Products List." B. 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. All interior paints and primers must be less than or equal to the following VOC levels, in grams per liter, based on a combination of the MPI and GreenSeal standards:
 - 1. Flat Paints and Coatings: 50 g/L.
 - 2. Nonflat Paints and Coatings: 50 g/L.
 - 3. Primers, Sealers, and Undercoaters: 50 g/L.
 - 4. Anticorrosive and Antirust Paints Applied to Ferrous Metals: 250 g/L.
 - 5. Floor Coatings: 100 g/L.
- C. Colors: As indicated in a color schedule.

2.03 BLOCK FILLERS

- A. Block Filler, Latex, Interior/Exterior: MPI #4.
 - 1. Sherwin-Williams: B25W00025/PrepRite, Int/Ext Block Filler
 - 2. Or Approved equal

2.04 PRIMERS/SEALERS

- A. Primer Sealer, Latex. Interior: MPI #50.
 - 1. Sherwin-Williams: B28 Series/ProMar 200 Zero VOC Interior Latex Primer
 - 2. Or approved equal
- B. Primer, Latex, for Interior Wood: MPI #39.
 - 1. Sherwin-Williams: B51W00450/Multi-Purpose, Multi-Purpose Latex Primer/ Sealer
 - 2. Or approved equal

2.05 METAL PRIMERS

- A. Primer, Rust-Inhibitive, Water Based: MPI #107.
 - 1. Sherwin-Williams: B66 Series/Pro Industrial Pro-Cryl Universal Acrylic Primer
 - 2. Or approved equal
- B. Primer, Galvanized Water Based: MPI #134.

1. Sherwin-Williams: B66 Series/Pro Industrial DTM Acrylic Primer/Finish or Pro Industrial Pro-Cryl Universal Acrylic Primer
2. Or approved equal

2.06 WATER-BASED PAINTS

- A. Latex, Interior, Flat, (Gloss Level 1): MPI #53.
- B. Sherwin-Williams : B66 Series/ProMar 200 Zero VOC Interior Latex Flat B. Latex. Interior, (Gloss Level 3): MPI #52.
- C. Sherwin-Williams : B20 Series/ProMar 200 Zero VOC Interior Latex Eg-Shel C. Latex, Interior, Semi-Gloss, (Gloss Level 5): MPI #54.
- D. Sherwin-Williams : B31 Series/ProMar 200 Zero VOC Interior Latex Semi-Gloss
- E. Light Industrial Coating, Interior, Water Based, Semi-Gloss (Gloss Level 5): MPI #153.
- F. Sherwin-Williams: B66 Series/Pro Industrial, Acrylic Semi-Gloss Coating or K46 Series/Pro Industrial Pre-Catalyzed Epoxy Semi-Gloss

PART 3 - EXECUTION

3.01 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. Concrete: 12 percent.
 2. Masonry (Clay and CMU): 12 percent.
 3. Wood: 15 percent.
 4. Gypsum Board: 12 percent.
 5. Plaster: 12 percent
- C. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- D. Proceed with coating application only after unsatisfactory conditions have been erected.
 1. Application of coating indicates acceptance of surfaces and conditions.

3.02 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 reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

3.03 APPLICATION

- A. Apply paints according to manufacturer's written instructions and to recommendations in "MPI Manual."
- B. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, cap, ropiness, or other surface imperfections. Cut in sham lines and color breaks.

3.04 CLEANING AND PROTECTION

- A. 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.
- B. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.
 - 1. 3.5 INTERIOR PAINTING SCHEDULE A. CMU Substrates:

3.05 LATEX SYSTEM:

- a. Block Filler. Block filler, latex, interior/exterior, MPI #4.
- b. Intermediate Coat: Latex, interior, matching topcoat.
- c. Topcoat: Latex, interior, semi-gloss, (Gloss Level 5), MPI #54. B. Ferrous metal Substrates:
 - B. Water-Based Light Industrial Coating System:
 - a. Prime Coat: Primer, rust-inhibitive, water based MPI #107.
 - b. Intermediate Coat: Light industrial coating interior, water based, matching topcoat.
 - c. Topcoat: Light industrial coating, interior, water based semi-gloss (Gloss Level 5), MPI #153. C. Galvanized-Metal Substrates:
 - C. Latex over Waterborne Primer System:
 - a. Prime Coat: Primer, galvanized, water based, MPI #134.
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, semi-gloss, (Gloss Level 5), MPI #54.
 - D. Wood Substrates: Including wood trim, architectural woodwork, doors, and windows.
 - E. Latex System:
 - a. Prime Coat: Primer, latex, for interior wood, MPI #39.
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, semi-gloss, (Gloss Level 5), MPI #54. E. Gypsum Board and Plaster Substrates:
 - F. Latex System:
 - a. Prime Coat: Primer sealer, latex, interior, MPI #50.
 - b. Intermediate Coat: Latex, interior, matching topcoat
 - c. Topcoat for ceilings (except at bathrooms): Latex, interior, flat, (Gloss Level 1), MPI #53.
 - d. Topcoat for apartment hallways, bedroom and living room walls: Latex, interior, (Gloss Level 3), MPI #52.
 - e. Topcoat for kitchen, bathroom wall and ceiling surfaces, closets, staircase and public hall walls: Latex, interior, semi-gloss, (Gloss Level 5), MPI #54.

END OF SECTION 09 91 23