

**SECTION 09 91 13 - EXTERIOR PAINTING****PART 1 - GENERAL****1.1 RELATED DOCUMENTS**

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

**1.2 SUMMARY**

- A. This Section includes surface preparation and the application of paint systems on the following exterior substrates:
1. Concrete.
  2. Steel.
  3. Galvanized metal.
  4. Plastic trim fabrications.
  5. ~~Exterior Portland cement finish system (EIFS).~~
  6. Exterior gypsum board.
- B. Related Sections include the following:
1. Division 9 Section "Interior Painting" for surface preparation and the application of paint systems on interior substrates.

**1.3 SUBMITTALS**

- A. Product Data: For each type of product indicated.
- B. Samples for Initial Selection: For each type of topcoat product indicated.
- C. Samples for Verification: For each type of paint system and in each color and gloss of topcoat indicated.
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.
- D. 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.

**1.4 QUALITY ASSURANCE**

- A. Painting Standards:

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1. Preparation and Workmanship: Comply with accepted industry standards and requirements of manufacture for products and paint systems indicated.

## 1.5 **PROJECT 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 temperatures less than 5 deg F above the dew point; or to damp or wet surfaces.

## **PART 2 - PRODUCTS**

### 2.1 **MANUFACTURERS**

- A. Basis-of-Design Product: The design for each material is based on the products named. Subject to compliance with requirements, provide either the named products or comparable products by one of the other manufacturers specified or approved by the Owner.
  1. PPG Industries. (888 PPG IDEA)
- B. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, manufacturers specified.
  1. ICI Dulux Paints (ICI ); (216 344 8000).
  2. Porter Paints (800 332 6270).
  3. Sherwin-Williams Co. (800 321 8194)

### 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.

### 2.3 **BLOCK FILLERS**

- A. Interior/Exterior Latex Block Filler: Pittsburgh Paints; 6-16 SpeedHide Interior/Exterior Masonry Latex Block Filler: Applied at a dry film thickness of not less than 7.0 to 14.0 mils Depending n porosity and CMU type

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#### 2.4 **PRIMERS/SEALERS**

- A. Alkali-Resistant Primer: Pittsburgh Paints; 4-603 PermaCrete Interior/Exterior Acrylic Latex Alkali Resistant Primer: Applied at a dry film thickness of not less than 1.5 mils (0.038 mm).
- B. Bonding Primer (Water Based): Pittsburgh Paints; 17-921 Seal Grip Acrylic Primer/ Sealer: Applied at a dry film thickness of not less than 1.2 mils.
- C. Bonding Primer (Solvent Based): Pittsburgh Paints; 17-941 Seal Grip Int/Ext Universal Alkyd Primer: Applied at a dry film thickness of not less than 1.5 mils.
- D. Masonry Primer (Water Based) Pittsburgh Paints; 4-2 PermaCrete High Build Acrylic Primer: Applied at a dry film thickness of not less than 6.0 mils

#### 2.5 **METAL PRIMERS**

- A. Alkyd Anticorrosive Metal Primer: Pittsburgh Paints; 94-258 Alkyd Fast Dry Primer: Applied at a dry film thickness of not less than 1.5 mils
- B. Cementitious Galvanized-Metal Primer: Pittsburgh Paints; 6-209 Speedhide Galvanized Metal Primer. Applied at a dry film thickness of not less than 1.5 mils
- C. Waterborne Galvanized-Metal Primer: Pittsburgh Paints; 90-709 Pitt-Tech Interior/Exterior Primer: Applied at a dry film thickness of not less than 2.0 mils
- D. Quick-Drying Primer for Aluminum: Pittsburgh Paints; 94-258 Alkyd Fast Dry Primer: Applied at a dry film thickness of not less than 1.5 mils

#### 2.6 **WOOD PRIMERS**

- A. Exterior Latex Wood Primer: Pittsburgh Paints; 17-921 Seal Grip Acrylic Primer/ Sealer: Applied at a dry film thickness of not less than 1.2 mils
- B. Exterior Alkyd Wood Primer: Pittsburgh Paints; 6-9 SpeedHide Exterior Wood Primer Alkyd: Applied at a dry film thickness of not less than 1.8 mils
- C. Exterior Oil Wood Primer: Pittsburgh Paints; 6-9 SpeedHide Exterior Wood Primer Alkyd: Applied at a dry film thickness of not less than 1.8 mils

#### 2.7 **EXTERIOR LATEX PAINTS**

- A. Exterior Latex (Flat): Pittsburgh Paints; 72-45 SunProof Exterior House Paint Flat Acrylic: Applied at a dry film thickness of not less than 1.2 mils
- B. Exterior Latex (Semigloss): Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint: Applied at a dry film thickness of not less than 1.1 mils

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- C. Exterior Latex (Gloss): Pittsburgh Paints; 90-374 Pitt-Tech High Gloss Acrylic Enamels: Applied at a dry film thickness of not less than 3.0 mils

**2.8 EXTERIOR ALKYD PAINTS**

- A. Exterior Alkyd Enamel (Semigloss): Pittsburgh Paints; 7-844 Exterior Semi-Gloss Oil: Applied at a dry film thickness of not less than 1.5 mils
- B. Exterior Alkyd Enamel (Gloss): Pittsburgh Paints; 1-45 SunProof Exterior Gloss Oil: Applied at a dry film thickness of not less than 1.8 mils

**2.9 QUICK-DRYING ENAMELS**

- A. Quick-Drying Enamel (Semigloss): Pittsburgh Paints; 7-814 Pittsburgh Paints Semi-Gloss-Oil Enamel: Applied at a dry film thickness of not less than 1.5 mils
- B. Quick-Drying Enamel (High Gloss): Pittsburgh Paints; 95-9000 Pittsburgh Paints Fast Dry Gloss-Oil Enamel: Applied at a dry film thickness of not less than 1.5 mils

**2.10 TEXTURED AND HIGH-BUILD COATINGS**

- A. Latex Stucco and Masonry Textured Coating: Pittsburgh Paints; 4-50 PermaCrete Acrylic Texture Coating: Applied at a dry film thickness of not less than 6.0 mils
- B. High-Build Latex (Exterior): Pittsburgh Paints; 4-22 PermaCrete High Build Acrylic Coating: Applied at a dry film thickness of not less than 6.0 mils

**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 work.
- B. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- C. 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.

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### 3.2 **PREPARATION**

- A. Comply with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual" applicable to substrates and paint systems indicated.
- B. Remove plates, machined surfaces, and similar items already in place that 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.
  - 2. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
- C. 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.
- D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions.
- E. Concrete Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions.
- F. Steel Substrates: Remove rust and loose mill scale. Clean using methods recommended in writing by paint manufacturer.
  - 1. Do not install chromate passivated (commercially known as "bonderized") treatment on galvanized-metal substrates if primers are field applied. If galvanized metal is chromate passivated, consult manufacturers for appropriate surface preparation and primers.
- G. Galvanized-Metal Substrates: Remove grease and oil residue from galvanized sheet metal fabricated from coil stock by mechanical methods to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.
- H. Plastic Trim Fabrication Substrates: Remove dust, dirt, and other foreign material that might impair bond of paints to substrates.
- I. Plaster Substrates: Do not begin paint application until plaster is fully cured and dry.
- J. Exterior Gypsum Board Substrates: Do not begin paint application until finishing compound is dry and sanded smooth.

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### 3.3 APPLICATION

- A. Apply paints according to manufacturer's written instructions.
  - 1. Use applicators and techniques suited for paint and substrate indicated.
  - 2. Paint surfaces behind movable items same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed items with prime coat only.
- 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 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 Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

### 3.5 EXTERIOR PAINTING SCHEDULE

- A. Steel Substrates:
  - 1. Quick-Drying Enamel System Semi Gloss
    - a. Prime Coat: Pittsburgh Paints; 94-258 Alkyd Fast Dry Primer.
    - b. Intermediate Coat: Pittsburgh Paints; 7-814 Pittsburgh Paints Semi-Gloss-Oil Enamel.
    - c. Topcoat: Pittsburgh Paints; 7-814 Pittsburgh Paints Semi-Gloss-Oil Enamel. (semigloss).
- B. Galvanized-Metal Substrates:
  - 1. Latex System:
    - a. Prime Coat: Pittsburgh Paints; 6-209 Speedhide Galvanized Metal Primer.

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- b. Intermediate Coat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint
  - c. Topcoat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint (semigloss).
2. Latex Over Water-Based Primer System:
    - a. Prime Coat: Pittsburgh Paints; 90-709 Pitt-Tech Interior/Exterior Primer.
    - b. Intermediate Coat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint
    - c. Topcoat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint (semigloss).
  3. Latex Over Alkyd Primer System:
    - a. Prime Coat: Pittsburgh Paints; 6-9 SpeedHide Exterior Wood Primer Alkyd.
    - b. Intermediate Coat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint
    - c. Topcoat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint (semigloss)..
- C. Plastic Trim Fabrication Substrates:
1. Latex System:
    - a. Prime Coat: Pittsburgh Paints; 17-921 Seal Grip Acrylic Primer/ Sealer (water based).
    - b. Intermediate Coat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint
    - c. Topcoat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint (semigloss).

~~D. EIFS/ Stucco Substrates:~~

~~1. Latex System:~~

- ~~a. Prime Coat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint.~~
- ~~b. Intermediate Coat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint~~
- ~~c. Topcoat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint (semigloss).~~

~~2. Latex Over Alkali Resistant Primer System:~~

- ~~a. Prime Coat: Pittsburgh Paints; 6-603 SpeedHide Interior/Exterior Acrylic Latex Alkali Resistant Primer.~~
- ~~b. Intermediate Coat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint~~
- ~~c. Topcoat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint (semigloss).~~

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E. Exterior Gypsum Board Substrates:

1. Latex System:

- a. Prime Coat: Pittsburgh Paints; 6-603 SpeedHide Interior/Exterior Acrylic Latex Alkali Resistant Primer.
- b. Intermediate Coat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint
- c. Topcoat: Pittsburgh Paints; 78-45 SunProof Exterior Semi-Gloss Acrylic Latex Paint (semigloss).

**END OF SECTION 099113**

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