SECTION 09-9100

PAINTING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
   1. Surface preparation and field application of paints. This includes touch-up of previously painted surfaces damaged or requiring touch-up due to new construction and new materials requiring paint that are installed or repaired under this contract.

B. Related Sections:
   1. Section 01-1100: Summary of work.

1.2 REFERENCES

A. ASTM International (ASTM) D4442 - Standard Test Method for Direct Moisture Content Measurement of Wood and Wood-Base Materials.

B. Society for Protective Coatings (SSPC) - Painting Manual.

1.3 SUBMITTALS

Not Applicable

1.4 QUALITY ASSURANCE

A. Applicator Qualifications: Minimum 5 years experience in work of this Section.

1.5 DELIVERY, STORAGE AND HANDLING

A. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, color designation, and instructions for mixing and reducing.

B. Paint Materials: Store at ambient temperature in ventilated area, or as required by manufacturer's instructions.

1.6 PROJECT CONDITIONS

A. Do not apply materials when surface and ambient temperatures or relative humidity are outside ranges required by manufacturer.

1.7 MAINTENANCE

A. Extra Materials: 1 gallon of each color and sheen used under this contract.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Acceptable Manufacturers:
   1. Benjamin Moore and Co. (www.benjaminmoore.com)
   2. Devoe Paint Co. (www.devoepaint.com)
   3. Fuller O'Brien Paints. (www.fullerpaint.com)
   4. I.C.I. Paints. (www.icipaintstores.com)
   5. Kelly-Moore Paints. (www.kellymoore.com)
   6. PPG Architectural Finishes, Inc. (www.pittsburghpaints.com)
   7. Pratt and Lambert Paints. (www.prattandlambert.com)
   8. Sherwin Williams. (www.sherwin-williams.com)

2.2 MATERIALS

A. Paints: As recommended by paint manufacturer for each substrate.

2.3 ACCESSORIES

A. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials required to achieve specified finishes; commercial quality.
B. Patching Materials: Latex filler or as recommended by paint manufacturer.
C. Fastener Head Cover Materials: Latex filler or as recommended by paint manufacturer

2.4 MIXES

A. Uniformly mix to thoroughly disperse pigments.
B. Do not thin in excess of manufacturer's recommendations.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Test shop applied primer for compatibility with subsequent coatings.
B. Measure moisture content of surfaces using electronic moisture meter. Do not apply coatings unless moisture content of surfaces are below following maximums:
   Wood: 15 percent, measured to ASTM D4442.

3.2 PREPARATION

A. General:
   1. Protect adjacent and underlying surfaces.
   2. Remove or mask electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces or finishing.
   3. Correct defects and clean surfaces capable of affecting work of this section.

4. Seal marks that may bleed through surface finishes with shellac.

B. Impervious Surfaces: Remove mildew by scrubbing with solution of trisodium phosphate and bleach. Rinse with clean water and allow to dry.
C. [Concrete] [and] [Masonry]:
   1. Remove dirt, loose mortar, scale, salt and alkali powder, and other foreign matter.
   2. Remove oil and grease with solution of trisodium phosphate; rinse and allow to dry.
   3. Remove stains caused by weathering of corroding metals with solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.
D. Galvanized Steel: SSPC Method SP1 - Solvent Cleaning.
E. Aluminum: SSPC Method SP1 - Solvent Cleaning.
F. Uncoated Ferrous Metals:
   1. SSPC Method SP2 - Hand Tool Cleaning or Method SP3 - Power Tool Cleaning.
   2. Spot prime paint after repairs.
G. Shop Primed Ferrous Metals:
   1. SSPC Method SP2 - Hand Tool Cleaning or Method SP3 - Power Tool Cleaning.
   2. Feather edges to make patches inconspicuous.
   3. Prime bare steel surfaces.
H. Interior Wood:
   1. Wipe off dust and grit.
   2. Seal knots, pitch streaks, and sappy sections with sealer.
   3. Fill nail holes and cracks after primer has dried; sand between coats.
I. Exterior Wood:
   1. Remove dust, grit, and foreign matter.
   2. Seal knots, pitch streaks, and sappy sections.
J. Existing Surfaces:
   1. Remove loose, flaking, powdery, and peeling paints.
   2. Lightly sand glossy painted surfaces.
   3. Fill holes, cracks, depressions and other imperfections with patching compound; sand flush with surface.
   4. Remove oil, grease, and wax by scraping; solvent wash and thoroughly rinse.
   5. Remove rust by wire brushing to expose base metal.

3.3 APPLICATION

A. Pant surfaces to match existing colors as applicable
B. Apply primer or first coat immediately after surface preparation is complete to prevent recontamination.
C. Do not apply finishes to surfaces that are not dry.
D. Apply coatings to minimum dry film thickness recommended by manufacturer.
E. Apply each coat of paint slightly darker than preceding coat unless specified otherwise.
F. Apply coatings to uniform appearance without laps, sags, curtains, holidays, and brush marks.

G. Allow applied coats to dry before next coat is applied.
H. Sand between coats on interior [wood] [and] [metal] surfaces.
I. Match final coat to approved color samples.
J. Where clear finishes are specified, tint fillers to match wood. Work fillers into grain before set. Wipe excess from surface.
K. Prime concealed surfaces of exterior wood and interior wood in contact with masonry or cementitious materials with one coat primer paint.
L. Mechanical and Electrical Components:
    1. Paint factory primed equipment.
    2. Remove unfinished and primed louvers, grilles, covers, and access panels; paint separately.
    3. Paint exposed and insulated pipes, conduit, boxes, ducts, hangers, brackets, collars, and supports unless factory finished.
    4. Do not paint name tags or identifying markings.
    5. Paint exposed conduit and electrical equipment in finished areas.
M. Do not Paint:
    1. Surfaces indicated on Drawings or specified to be unpainted or unfinished.
    2. Surfaces with factory applied finish coat or integral finish.
    3. Architectural metals, including brass, bronze, stainless steel, and chrome plating.
N. ADJUSTING
    1. Touch up or refinish disfigured surfaces.
O. CLEANING
    1. Remove paint from adjacent surfaces.

END OF SECTION