

DIVISION 9

FINISHES

BUSHEY FEIGHT MORIN ARCHITECTS INC.
473 NORTH POTOMAC STREET
HAGERSTOWN, MARYLAND 21740
301-733-5600 FAX: 301-733-5612

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation and field application of paints and coatings.

1.02 REFERENCES

- A. ASTM D16 - Definitions of Terms Relating to Paint, Varnish, Lacquer, and Related Products.
- B. ASTM D2016 - Test Method for Moisture Content of Wood.
- C. AWWA (American Water Works Association) - C204 - Chlorinated Rubber-Alkyd Paint Systems for the Exterior of Above Ground Steel Water Piping.
- D. AWWA (American Water Works Association) - D102 - Painting Steel Water Storage Tanks.
- E. NACE (National Association of Corrosion Engineers) - Industrial Maintenance Painting.
- F. NPCA (National Paint and Coatings Association) - Guide to U.S. Government Paint Specifications.
- G. PDCA (Painting and Decorating Contractors of America) - Painting - Architectural Specifications Manual.
- H. SSPC (Steel Structures Painting Council) - Steel Structures Painting Manual.

1.03 DEFINITIONS

- A. Conform to ASTM D16 for interpretation of terms used in this Section.

1.04 SUBMITTALS

- A. Submit under provisions of Section 01330.
- B. Product Data: Provide data on all finishing products.
- C. Samples: Submit two color chip selection catalogs illustrating range of colors available for each surface finishing product scheduled.
- D. Manufacturer's Instructions: Indicate special surface preparation procedures, substrate conditions requiring special attention.

1.05 QUALIFICATIONS

- A. Manufacturer: Company specializing in manufacturing the Products specified in this section with minimum ten (10) years documented experience.
- B. Applicator: Company specializing in performing the work of this section with minimum five (5) years documented experience and approved by manufacturer.

1.06 REGULATORY REQUIREMENTS

- A. Conform to applicable code for flame and smoke rating requirements for finishes.

1.07 FIELD SAMPLES

- A. Provide field sample of paint under provisions of Section 01400.
- B. Provide field sample classroom, illustrating special coating color, texture, and finish.
- C. Locate where directed.
- D. Accepted sample may remain as part of the Work.

1.08 DELIVERY, STORAGE, AND HANDLING

- A. Deliver, store, protect and handle products to site under provisions of Section 01600.
- B. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.
- C. Container label to 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.
- D. Store paint materials at minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

1.09 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B. Do not apply exterior coatings during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- C. Minimum Application Temperatures for Latex Paints: 45 degrees F for interiors; 50 degrees F for exterior; unless required otherwise by manufacturer's instructions.
- D. Minimum Application Temperature for Varnish and Finishes: 65 degrees F for interior or exterior, unless required otherwise by manufacturer's instructions.
- E. Provide lighting level of 80 ft candles measured mid-height at substrate surface.

1.10 EXTRA MATERIALS

- A. Furnish under provisions of Section 01700.
- B. Provide 1 gallon of each color, and type to Owner.
- C. Label each container with color, type, texture, room locations, and in addition to the manufacturer's label.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Manufacturers - Paint
 - 1. PPG.
 - 2. Duron.
 - 3. Sherwin-Williams.
 - 4. Benjamin Moore.

- B. Manufacturers - Transparent Finishes
 - 1. Min-Wax.
 - 2. PPG Model REZ.
 - 3. Valspar

- C. Manufacturers - Stain
 - 1. Min-Wax.
 - 2. PPG Model RE2.
 - 3. Valspar.

- D. Manufacturers - Primer Sealers
 - 1. PPG - 6 Line.
 - 2. Benjamin Moore.
 - 3. Sherwin-Williams.
 - 4. Duron

- F. Substitutions: Under provisions of Section 01600.

2.02 MATERIALS

- A. Coatings: Ready mixed, except field catalyzed coatings. Process pigments to a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating; good flow and brushing properties; capable of drying or curing free of streaks or sags.

- B. Accessory Materials: Linseed oil, shellac, turpentine, paint thinners and other materials not specifically indicated but required to achieve the finishes specified, of commercial quality.

- C. Patching Materials: Latex filler.

- D. Fastener Head Cover Materials: Latex filler.

2.03 FINISHES

- A. Refer to schedule at end of section for surface finish schedule. Colors will be selected during construction.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Verify site conditions under provisions of Section 01300.

- B. Verify that surfaces and substrate conditions are ready to receive work as instructed by the product manufacturer.

- C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
- D. Test shop applied primer for compatibility with subsequent cover materials.
- E. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below the following maximums:
 1. Plaster and Gypsum Wallboard: 12 percent.
 2. Masonry, Concrete, and Concrete Unit Masonry: 12 percent.
 3. Interior Wood: 15 percent, measured in accordance with ASTM D2016.

3.02 PREPARATION

- A. Remove or mask electrical plates, hardware, light fixture trim, escutcheons, and fittings prior to preparing surfaces or finishing.
- B. Correct defects and clean surfaces which affect work of this section. Remove existing coatings that exhibit loose surface defects.
- C. Seal with shellac and seal marks which may bleed through surface finishes.
- D. Impervious Surfaces: Remove mildew by scrubbing with solution of tri-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- E. Insulated Coverings: Remove dirt, grease, and oil from canvas and cotton.
- F. Gypsum Board Surfaces: Fill minor defects with filler compound. Spot prime defects after repair.
- G. Galvanized Surfaces: Remove surface contamination and oils and wash with solvent. Apply coat of etching primer.
- H. Concrete and Unit Masonry Surfaces Scheduled to Receive Paint Finish: Remove dirt, loose mortar, scale, salt or alkali powder, and other foreign matter. Remove oil and grease with a solution of tri-sodium phosphate; rinse well and allow to dry. Remove stains caused by weathering of corroding metals with a solution of sodium metasilicate after thoroughly wetting with water. Allow to dry.
- I. Plaster Surfaces: Fill hairline cracks, small holes, and imperfections with latex patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.
- J. Uncoated Steel and Iron Surfaces: Remove grease, mill scale, weld splatter, dirt, and rust. Where heavy coatings of scale are evident, remove by power tool, wire brushing or sandblasting; clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts, and nuts are similarly cleaned. Spot prime paint after repairs.
- K. Shop Primed Steel Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces.
- L. Interior Wood Items Scheduled to Receive Paint Finish: Wipe off dust and grit prior to priming. Seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after primer has dried; sand between coats.
- M. Interior Wood Items Scheduled to Receive Transparent Finish: Wipe off dust and grit prior to sealing, seal knots, pitch streaks, and sappy sections with sealer. Fill nail holes and cracks after sealer has dried; sand lightly between coats.
- N. Wood and Metal Doors Scheduled for Painting: Seal top and bottom edges with primer.

3.03 APPLICATION

- A. Apply products in accordance with manufacturer's instructions.
- B. Do not apply finishes to surfaces that are not dry.
- C. Apply each coat to uniform finish.
- D. Apply each coat of paint slightly darker than preceding coat unless otherwise approved.
- E. Sand wood and metal lightly between coats to achieve required finish.
- F. Vacuum clean surfaces free of loose particles. Use tack cloth just prior to applying next coat.
- G. Allow applied coat to dry before next coat is applied.
- H. Where clear finishes are required, tint fillers to match wood. Work fillers into the grain before set. Wipe excess from surface.
- I. Prime concealed surfaces of interior woodwork with primer paint.
- J. Prime concealed surfaces of interior woodwork scheduled to receive stain or varnish finish with gloss varnish reduced 25 percent with mineral spirits.

3.04 CLEANING

- A. Clean work under provisions of 01700.
- B. Collect waste material which may constitute a fire hazard, place in closed metal containers and remove daily from site.

3.05 INTERIOR PAINT SYSTEMS.

- A. New and Existing Masonry:
 - 1. 1st Coat: Latex masonry block filler (PPF 6-7)
 - 2. 2nd & 3rd Coats: Latex semi-gloss enamel (PPG 6-510) 3.6 WFT/coat.
- B. Ferrous Metals:
 - 1. 1st Coat: Primer – Speedhide Water Base Inhibitive Metal primer 90-712 white WFT 4.8mils.
 - 2. 2nd & 3rd Coats: Pitt-Glaze Acrylic-Epoxy Semi-Gloss coating, 16 line, WFT 6.0 mils.

3.06 EXTERIOR PAINT SYSTEMS

- A. Ferrous metals (normal use and atmosphere).
 - 1. Location: All miscellaneous steel masonry window and door lintels.
 - 2. System: Oil Alkyd (Low oil gloss).
 - a. 1st Coat: Touch-up Primer: PPG 6-212 WFT 3.6
 - b. 2nd & 3rd Coat: PPG Speedhide all purpose house paint WFT 4.0 mils per coat.
- B. Zinc Coated Metal - Galvanized Steel
 - 1. Location: All exterior zinc coated or galvanized steel miscellaneous metals and window and door lintels.
 - 2. System: Urethane/Acrylic
 - a. Surface: Preparation SPG-9E
 - b. Primer: Pitt-Tech 90-708 @ 5.1 WFT
 - c. Finish (2 coats): Manor Hall 75-line @ 3.2 WFT per coat.

END OF SECTION