

## DIVISION 9 - FINISHES

### SECTION 09911 – EXTERIOR PAINTING

#### PART 1 - GENERAL

##### 1.01 RELATED DOCUMENTS

The General Provisions, Special Provisions and General Requirements of the Specifications, apply to the work specified in this Section.

##### 1.02 DESCRIPTION OF WORK

- A. This section includes, but not limited to, all the design, shop drawings, materials, labor, construction, placement and finishing of all structural steel necessary to complete the project.
- B. Related Sections:
  - 1. Section 05120 – STRUCTURAL STEEL

##### 1.03 SUMMARY

- A. This Section includes surface preparation and application of paint systems on the following substrates:
  - 1. Structural steel.

##### 1.04 SUBMITTALS

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

## 1.05 QUALITY ASSURANCE

### A. MPI Standards:

1. Products: Comply 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.

## 1.06 DELIVERY, STORAGE, AND HANDLING

### A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C).

1. Maintain containers in clean condition, free of foreign materials and residue.
2. Remove rags and waste from storage areas daily.

## 1.07 EXTRA MATERIALS

### A. Furnish extra materials that match products installed and that are packaged with protective covering for storage identified with labels describing contents.

1. Paint: 5 percent, but not less than 1 gallon of each material and color applied.

## PART 2 - PRODUCTS

### 2.01 MANUFACTURERS

#### A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following or approved equal:

1. Benjamin Moore & Co.
2. Sherwin-Williams Company (The).

## 2.02 PAINT, GENERAL

- A. MPI Standards: Provide products that comply with MPI standards indicated and that are listed in its "MPI 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.
- C. VOC Content: Provide materials that comply with VOC limits of authorities having jurisdiction.
- D. Colors: Match existing.

## 2.03 PRIMERS/SEALANTS

- A. Primer, Zinc-Rich, Inorganic: MP #19.

## 2.04 TOPCOATS

- A. Epoxy, High Build, Low Gloss, MPI #108.
- B. Polyurethane, Two-Component, Pigmented, Gloss, MPI #72.

## 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. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- C. Proceed with coating application only after unsatisfactory conditions have been corrected.
  - 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 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. Steel Substrates: Remove rust and loose mill scale. Clean using methods recommended in writing by paint manufacturer.

### 3.03 APPLICATION

- A. Apply paints according to manufacturer's written instruction and recommendations in "MPI Manual."
- B. 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.

### 3.04 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.
- B. Contractor shall touch up and restore painted surfaces damaged by testing. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

3.05 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 the State, and leave in an undamaged condition.
- B. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.06 EXTERIOR PAINTING SCHEDULE

- A. Structural Steel Substrate, Polyurethane, Pigmented System (MPI EXT 5.1L)
  - 1. Application; Typical for exterior ferrous metals.
  - 2. Prime Coat: Primer, Zinc-Rich, Inorganic.
  - 3. Intermediate Coat: Epoxy, High Build, Gloss.
  - 4. Topcoat: Polyurethane, Two-Component, Pigmented, Gloss.

PART 4 - MEASUREMENT AND PAYMENT

4.01 BASIS OF MEASUREMENT AND PAYMENT

Work under this Section will not be measured for payment but will be paid for at the Contract Lump Sum Price.

<u>Item No.</u>	<u>Item</u>	<u>Unit</u>
09911	Exterior Painting	Lump Sum

END OF SECTION