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**DIVISION 9**

<b>Section</b>	<b>Title</b>
09900	Painting and Finishing

## PAINTING AND FINISHING

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### **1. GENERAL**

#### **1.1 Work Included**

- .1 Prepare surfaces which are to receive finish.
- .2 Finish surfaces as indicated in the schedule at the end of this Section.

#### **1.2 Related Sections**

- .1 Metal Fabrications: Prime painting: Section 05500

#### **1.3 Quality Assurance**

- .1 Acceptable manufacturers, materials, workmanship and all items affecting the Work of this Section is to be in accordance with Canadian Painting Contractors Association (CPCA) "Architectural Painting Specification Manual".
- .2 Prior to ordering paints, submit to the Contract Administrator for review a complete schedule of paint materials proposed for use. This schedule shall include manufacturers name, brand name or code number, type and recommended application.

#### **1.4 Colour Schedule**

- .1 Paint colours shall be as selected by the Contract Administrator.
- .2 Prior to commencement of Work, the Contract Administrator will furnish three (3) copies of colour schedule.

#### **1.5 Samples**

- .1 Prepare 300 mm x 200 mm samples of paint type finishes when requested by Contract Administrator. Apply finishes on identical type materials to which they will be applied on job.
- .2 Identify each sample as to finish, colour name and number and sheen name and gloss units.

#### **1.6 Delivery**

- .1 Deliver paint materials in sealed original labelled containers, bearing manufacturers name, type of paint, brand name, colour designation and instructions for mixing or reducing.

#### **1.7 Storage**

- .1 Provide adequate storage facilities. Store paint materials at a minimum ambient temperature of 8°C and in a well ventilated area.
- .2 Take all precautionary measures to prevent fire hazards and spontaneous combustion.

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### 1.8 Environmental Conditions

- .1 Ensure surface temperatures or the surrounding air temperature is above 5°C before applying finishes. Minimum application temperatures for latex paints for interior Work is 7°C and for exterior Work 10°C.
- .2 Provide adequate continuous ventilation and sufficient heating facilities to maintain temperatures above 7°C for 24 hours before, during and 48 hours after application of finishes.
- .3 Provide minimum 25 foot candles of lighting on surfaces to be finished.

### 1.9 Protection

- .1 Adequately protect other surfaces from paint and damage. Make good any damage as a result of inadequate or unsuitable protection.
- .2 Furnish sufficient drop cloths, shields and protective equipment to prevent spray or droppings from fouling surfaces not being painted and in particular, surfaces within storage and preparation area.
- .3 Place cotton waste, cloths and material which may constitute a fire hazard in closed metal containers and remove daily from site.
- .4 Remove all electrical plates, surface hardware, fittings and fastenings, prior to painting operations. These items are to be carefully stored, cleaned and replaced on completion of work in each area. Do not use solvent that may remove the permanent lacquer finish to clean hardware.

## 2. PRODUCTS

### 2.1 Materials

- .1 Paint materials to be products of a single manufacturer.
- .2 All painting materials shall be the best quality and shall be accepted by the Contract Administrator.
- .3 Paint shall not be settled, caked or thickened in the container, shall be readily dispersed with a paddle to a smooth consistency, and shall have excellent application properties.
- .4 Paint shall arrive on the job colour-mixed except for tinting of undercoats and possible thinning.
- .5 All thinning and tinting materials shall be as recommended by the manufacturer for the particular material thinned or tinted.
- .6 Mixed colours shall match colour selection made by the Contract Administrator prior to application of the coating.

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- .7 Paint shall be ready mixed except field catalyzed coatings. Process pigments to a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating.
- .8 Paint shall have good flow and brushing properties; capable of drying or curing free of streaks or sags.
- .9 Paint Accessory Materials: Linseed oil, shellac, turpentine, and other materials not specifically indicated but required to achieve the finishes specified, of commercial quality.
- .10 Acceptable manufacturers: Pratt & Lambert, Benjamin Moore, C.I.L.
- .11 Acceptable manufacturers for galvanized areas: Carboline

### 3. EXECUTION

#### 3.1 Conditions of Surfaces

- .1 Thoroughly examine all surfaces schedule to be painted prior to commencement of Work. Report in writing to the Contract Administrator any condition that may potentially affect proper application. Do not commence until all such defects have been corrected.
- .2 Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces are below maximums established by the paint manufacturer.
- .3 Beginning of installation means acceptance of existing surfaces.

#### 3.2 Preparation of Surfaces

- .1 Impervious Surfaces: remove mildew by scrubbing with a solution of T.S.P. and bleach. Rinse with clean water and allow surface to dry completely.
- .2 Galvanized surfaces: remove surface contamination and oils from surfaces and wash with solvent. Apply a coat of etching type primer.
- .3 Zinc coated surfaces: remove surface contamination and oils from surfaces and prepare for priming in accordance with metal manufacturers recommendations.
- .4 Remove stains caused by weathering of corroding metals from concrete with a solution of sodium metasilicate after being thoroughly wetted with water. Allow to thoroughly dry.
- .5 Steel and iron surfaces: remove grease, rust, scale, dirt and dust from surfaces. Where heavy coatings of scale are evident, remove by wire brushing, sandblasting or any other necessary method. Ensure all steel surfaces are satisfactory before paint finishing.
- .6 Unprimed Steel Surfaces: clean by washing with solvent. Apply a treatment of phosphoric acid solution, ensuring weld joints, bolts and nuts are similarly cleaned. Prime surfaces to identify defects. Prime paint after defects have been remedied.

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- .7 Existing painted surface: remove surface contamination and oils from surfaces.

### 3.3 Applications

- .1 Apply paint and other finishes in accordance with good trade practice.
- .2 Finishes specified are intended to cover surfaces satisfactorily when applied in accordance with manufacturer's recommendations.
- .3 Apply each coat at the proper consistency.
- .4 Each coat of paint is to be slightly darker than the preceding coat unless otherwise acceptable to the Contract Administrator.
- .5 Sand lightly between coats to achieve required finish.
- .6 Do not apply finishes on surfaces that are not sufficiently dry.
- .7 Allow each coat of finish to dry before a following coat is applied, unless directed otherwise by manufacturer.

### 3.4 Protection

- .1 Protect other surfaces from paint or damage. Repair damage.
- .2 Furnish drop cloths, shields, and protective methods to prevent spray or droppings from disfiguring other surfaces.
- .3 Collect cotton waste, cloths and material which may constitute a fire hazard, place in closed metal containers and remove daily from Site.

### 3.5 Cleaning

- .1 As Work proceeds and upon completion, promptly remove all paint where spilled, splashed or spattered.
- .2 During the progress of Work keep the premises free from any unnecessary accumulation of tools, equipment, surplus materials and debris.
- .3 Upon completion of Work leave premises neat and clean, to the satisfaction of the Contract Administrator.

### 3.6 Painting Schedule

- .1 Interior Painting:
  - .1 Primed Metal Surfaces:
    - .1 One (1) coat enamel undercoat

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- .2 Two (2) coats alkyd semi-gloss enamel
- .2 Galvanized Metal Surfaces:
  - .1 One (1) coat Galvoseal WB
  - .2 Two (2) coats Carbogard 890
- .3 Existing Painted Surfaces:
  - .1 One (1) coat enamel undercoat
  - .2 Two (2) coats alkyd semi-gloss enamel

**END OF SECTION**