

1 General

1.1 REFERENCE STANDARDS

- .1 Master Painters Institute (MPI):
 - .1 Architectural Painting Specifications Manual, Master Painters Institute (MPI).

1.2 SUBMITTALS

- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit product data for each paint and coating product to be used.
- .3 Submit Workplace Hazardous Materials Information System (WHMIS) Material Safety Data Sheets (MSDS). Indicate VOCs during application and curing.
- .4 Samples:
 - .1 Submit full range colour sample chips to indicate where colour availability is restricted.
- .5 Test reports: submit certified test reports for paint from approved independent testing laboratories, indicating compliance with specifications for specified performance characteristics and physical properties.
 - .1 Lead, cadmium and chromium: presence of and amounts.
 - .2 Mercury: presence of and amounts.
 - .3 Organochlorines and PCBs: presence of and amounts.
- .6 Manufacturer's Instructions:
 - .1 Submit manufacturer's installation and application instructions.

1.3 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Labels shall clearly indicate:
 - .1 Manufacturer's name and address.
 - .2 Type of paint or coating.
 - .3 Compliance with applicable standard.
 - .4 Colour number in accordance with established colour schedule.
- .3 Observe manufacturer's recommendations for storage and handling.
- .4 Fire Safety Requirements:
 - .1 Provide fire extinguisher adjacent to storage area.
 - .2 Store oily rags, waste products, empty containers and materials subject to spontaneous combustion in ULC approved, sealed containers and remove from site on a daily basis.
 - .3 Handle, store, use and dispose of flammable and combustible materials in accordance with the National Fire Code of Canada.

1.4 SITE REQUIREMENTS

- .1 Temperature, Humidity and Substrate Moisture Content Levels:
 - .1 Perform no painting work when:
 - .1 Ambient air and substrate temperatures are below 10°C.
 - .2 Substrate temperature is over 32°C unless paint is specifically formulated for application at high temperatures.
 - .3 Substrate and ambient air temperatures are expected to fall outside MPI or paint manufacturer's prescribed limits.
 - .4 The relative humidity is above 85% or when the dew point is less than 3°C variance between the air/surface temperature.
 - .5 Rain or snow are forecast to occur before paint has thoroughly cured or when it is foggy, misty, raining or snowing at site.
 - .2 Test concrete, masonry and plaster surfaces for alkalinity as required.

1.5 WASTE MANAGEMENT AND DISPOSAL

- .1 Paint, stain and wood preservative finishes and related materials (thinners, solvents, etc.) are regarded as hazardous products and are subject to regulations for disposal. Information on these controls can be obtained from Provincial Ministries of Environment and Regional levels of Government.
- .2 Material which cannot be reused must be treated as hazardous waste and disposed of in an appropriate manner.
- .3 Place materials defined as hazardous or toxic waste, including used sealant and adhesive tubes and containers, in containers or areas designated for hazardous waste.
- .4 To reduce the amount of contaminants entering waterways, sanitary/storm drain systems or into ground the following procedures shall be strictly adhered to:
 - .1 Retain cleaning water for water-based materials to allow sediments to be filtered out.
 - .2 Retain cleaners, thinners, solvents and excess paint and place in designated containers and ensure proper disposal.
 - .3 Return solvent and oil-soaked rags used during painting operations for contaminant recovery, proper disposal, or appropriate cleaning and laundering.
 - .4 Dispose of contaminants in an approved legal manner in accordance with hazardous waste regulations.
 - .5 Empty paint cans are to be dry prior to disposal or recycling (where available).
- .5 Close and seal tightly partly used sealant and adhesive containers and store protected in well ventilated fire-safe area at moderate temperature.

2 Products

2.1 PAINT MATERIALS

- .1 Paint materials shall be non-toxic to fish and marine life.
- .2 Primer: acrylic, rust-inhibitive metal primer.
 - .1 Acceptable Materials: V110 Acrylic Metal Primer by Corotech.
- .3 Top coats:
 - .1 Acrylic, rust imhibitive.
 - .1 Acceptable Materials: Ultra Spec HP D.T.M Acrylic Semi-Gloss FP29 by Benjamin Moore.

2.2 PAINTING SYSTEMS

- .1 Steel piping and miscellaneous metal items:
 - .1 Surface preparation in accordance with manufacturer's instructions.
 - .2 Primer: 1 coat.
 - .3 Top coat: 2 coats.

3 Execution

3.1 GENERAL

- .1 Perform preparation and operations for painting in accordance with MPI Painting Specifications Manual and manufacturer's written instructions.
- .2 Apply paint materials in accordance with paint manufacturer's written application instructions.
- .3 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and data sheet.

3.2 EXAMINATION

- .1 Investigate existing substrates for problems related to proper and complete preparation of surfaces to be painted. Report to Departmental Representative damages, defects, unsatisfactory or unfavourable conditions before proceeding with work.

3.3 PROTECTION

- .1 Protect surrounding and adjoining work by adequately covering with tarpaulins, masking or other necessary protective covering.
- .2 Make good, any damage caused by failure to provide suitable protection.
- .3 Replace items that cannot be restored to "like-new" condition with new at no increase in Contract Price.
- .4 Provide protection and containment mechanisms to capture materials to prevent solid and liquid contamination from falling into water and tanks. Type of protection and containment mechanisms to be approved by Departmental Representative.

3.4 CLEANUP

- .1 Remove protective coverings and warning signs as soon as practical after operations cease.
- .2 Remove paint splashings on exposed surfaces that were not painted. Remove smears and spatter immediately as operations progress, using compatible solvent.

END OF SECTION