

Part 1 General

1.1 INTENT

- .1 This Section specifies requirements for site painting and colour coding of electrical work only.

1.2 RELATED SECTIONS

- .1 Common Work Results for Electrical: Section 26 05 00.

1.3 SUBMITTALS

- .1 None.

1.4 WASTE MANAGEMENT AND DISPOSAL

- .1 Collect and separate for disposal containers, paper, steel strapping, plastic, polystyrene, corrugated cardboard packaging material in appropriate on site bins for recycling in accordance with Waste Management Plan.
- .2 Separate for recycling and place in designated containers Plastic waste in accordance with Waste Management Plan (WMP).
- .3 Place materials defined as hazardous or toxic in designated containers.
- .4 Handle and dispose of hazardous materials in accordance with Regional and Municipal regulations.
- .5 Ensure emptied containers are sealed and stored safely.
- .6 Unused paint materials must be disposed of at official hazardous material collections site as approved by Department Representative.
- .7 Paint, stain and wood preservative finishes and related materials (thinners, and solvents) 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.
- .8 Material which cannot be reused must be treated as hazardous waste and disposed of in an appropriate manner.
- .9 Place materials defined as hazardous or toxic waste, including used sealant and adhesive tubes and containers, in containers or areas designated for hazardous waste.
- .10 To reduce the amount of contaminants entering waterways, sanitary/storm drain systems or into ground follow these procedures:
 - .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 approved legal manner in accordance with hazardous waste regulations.
- .5 Empty paint cans are to be dry prior to disposal or recycling (where available).
- .11 Where paint recycling is available, collect waste paint by type and provide for delivery to recycling or collection facility.

1.5 COORDINATION

- .1 Coordinate work specified in this Section with work specified in Division 26 to ensure correct colour coding.

Part 2 Products

2.1 PAINT

- .1 Refer to finish systems schedules at the end of this Section for product descriptions and product numbers. Product numbers are from the MPI Approved Product Lists.
- .2 Use products suitable for anticipated surface temperatures of substrates while in service.
- .3 Paint Materials:
 - .1 Refer to Schedule Sections for required finishing systems.
- .4 All surface conduit and boxes to be painted to match the surface they are installed on.

Part 3 Execution

3.1 PREPARATION OF SUBSTRATES

- .1 Clean and sand between coats using minimum #150 grit sand paper.

3.2 SUBSTRATES

- .1 Painting and colour coding is required on substrates specified below, at locations and by methods indicated in "Painting and Colour Coding Schedule" in this Section.
- .2 Electrical Conduit and Cable: Includes interior and exterior conduit and cable.
- .3 Other Electrical Work: Includes all other interior and exterior electrical work except:
 - .1 Conduit and cable.
 - .2 Electrical equipment which is required to be prefinished in coded colours in accordance with Alberta Infrastructure Color Coding Requirements.

3.3 LOCATIONS

- .1 Painting and colour coding is required at locations specified below, on substrates and by methods indicated in "Painting and Colour Coding Schedule" in this Section.
- .2 Exposed in Unfinished Areas: Includes all other rooms listed below. Electrical work will be left exposed in the following rooms:
 - .1 Mechanical rooms .
 - .2 Electrical rooms
- .3 All other area conduits to be concealed in walls and ceilings. No other areas will have surface conduit and or boxes.

3.4 METHODS

- .1 Painting and colour coding by methods specified below, are required on substrates and at locations indicated in "Painting and Colour Coding Schedule" in this Section.
- .2 Method 'P1' - Full Colour Coding for Mechanical Piping and Equipment:
 - .1 Use applicable 3 coat finish system.
- .3 Method 'P3' - Full Painting in Un coded Colors:
 - .1 Paint substrates in their entirety. Use applicable 3 coat finish system.
 - .2 Except as otherwise specified below, colors shall be the same as wall or ceiling background colours.
 - .3 Where interior electrical work will be left exposed color scheme shall be as indicated in Color Schedule for bidding purposes, colour scheme will include a maximum of 10% colors with approximately 20 % deep colour

tones, excluding colors for mechanical piping which require primary colour coding as specified under Method 'P1'.

- .4 Where exterior electrical work requires painting, color scheme shall be as indicated in Color Schedule for bidding purposes, colour scheme will include a maximum of 10% colors with approximately 20% deep color tones, excluding colors for mechanical piping which require primary colour coding as specified under Method 'P1'.

3.5 PAINTING AND COLOUR CODING SCHEDULE

| Substrates | | |
|------------------------------------|--------------------------------|----------------------|
| Locations | Elect. Conduit and Cable | Other Elect. Work |
| Exposed in service areas | P4 | P3 |
| [Exposed in unfinished areas] | P4 | P4 |
| Exposed in finished areas | P3 | P3 |
| Semi- concealed spaces | P4 | P4 |
| Permanently concealed spaces | P4 | P4 |
| Exposed to exterior | P3 | [P3] [P4] |

Key: P1 - Full Colour Coding for Mechanical Piping and Equipment
P2 - Intermittent Colour Coding for Mechanical Piping
P3 - Full Painting in Un coded Colors
P4 - No Painting in Coded or Un coded Colors.

Refer to articles 3.2, 3.3 and 3.4 of this Section for
detailed descriptions of substrates, locations and methods.

3.6 FINISH SYSTEMS SCHEDULE FOR MECHANICAL AND ELECTRICAL WORK

| Substrate | Finish System And Description | MPI Product No. |
|---|---|-----------------------|
| Aluminum Jacketed Piping, Conduit, and Equipment (Exposed aluminum) | EXT 5.4A Alkyd, Gloss Level G6 - Gloss | |
| | 1 st Coat: Vinyl Wash Primer | 80 |
| | 2 nd Coat: Quick Dry Primer | 9 |
| | 3 rd Coat: Alkyd | 9 |
| | 4 th Coat: Alkyd | |
| Galvanized Metal Piping, Ductwork, Conduit, and Equipment | INT 5.3C Alkyd, Gloss Level G5 - Semi-gloss | |
| | 1 st Coat: Cementitious Primer | 26 |
| | 2 nd Coat: Alkyd | 47 |
| | 3 rd Coat: Alkyd | 47 |
| Aluminum Jacketed Piping, Conduit, and Equipment Part 4 | INT 5.4A Alkyd, Gloss Level G5 - Semi-gloss | |
| | 1 st Coat: Vinyl Wash Primer | 80 |
| | 2 nd Coat: Alkyd | 47 |
| | 3 rd Coat: Alkyd | 47 |

END OF SECTION