

1 ASSEMBLY - GENERAL

- 1.1 The work of this section includes the provision of all design, labour, materials, equipment and services required to fabricate and install paint finishes as required for a complete project. The work includes, but is not necessarily limited to, the items referenced herein:
- 1.1.1 Field applied paint finishes.
- 1.2 Reference standards: References, selection of materials, preparation, and quality of work standards shall be as listed in the Painting Specification Manual published by the Canadian Painting Contractors Association (CPCA).
- 1.3 References to Other Sections & Documents
- 1.4 Qualifications: Applicators shall have a minimum of 5 years proven satisfactory experience and maintain an equally qualified field crew for the duration of such work.
- 1.5 Paint all items identified in space data sheets to receive paint finish including:
- 1.5.1 Steel stairs, rails, guards, ladders
 - 1.5.2 Bollards, corner guards
 - 1.5.3 Exposed structural and miscellaneous steel
 - 1.5.4 Exposed metal deck
 - 1.5.5 Exposed concrete structure
 - 1.5.6 Elevator/ lifts doors and frames
 - 1.5.7 Floor markings
 - 1.5.8 Mechanical and electrical conduits, pipes, hangers, plywood backboards and ducts
 - 1.5.9 Equipment that is not prefinished.

2 ASSEMBLY DESIGN CRITERIA

- 2.1 Comply with flame spread requirements of OBC. Provide finishes that are compatible and consistent with each other to suit level of finish specified in this section. Select from readily available stock from suppliers with proven delivery record.
- 2.2 Only products specified in the CPCA manual or specifically approved by the CPCA shall be used. Any material for which products or brand names are not specifically listed shall be of the highest quality.
- 2.3 Paint material shall be products of a single manufacturer.
- 2.4 Use only paints of the highest quality and low VOC selected from the CPCA Painting and Finishing schedule.

- 2.5 Paint exposed conduits, pipes, hangers and other mechanical and electrical equipment occurring in finished areas as well as inside cupboards and cabinet work. Colour and texture to match adjacent surfaces, except as noted otherwise.
- 2.6 Paint piping, conduits, ductwork and other unfinished equipment in boiler room, mechanical rooms, and electrical rooms. In other unfinished areas leave equipment, piping, conduits, hangers etc, in original finish and touch up scratches and marks.
- 2.7 Keep sprinkler heads free of paint.
- 2.8 Paint inside of ductwork where visible with primer and one coat of matt black paint.
- 2.9 Paint disconnect switches for fire alarm system and exit light systems in red enamel.
- 2.10 Paint both sides and edges of plywood backboards for equipment before installation. Leave equipment in original finish except for touch-up as required, and paint conduits, mounting accessories and other unfinished items.
- 2.11 Paint fire extinguisher cabinets to match adjacent wall colour.
- 2.12 Paint all exposed steel supports, framing and connections of millwork.

3 ASSEMBLY COMPONENTS

3.1 INTERIOR PAINT FINISHES

3.1.1 **General:**

3.1.1.1 Submittals: Submit material and colour boards to fully illustrate compatibility of proposed wall, floor, and ceiling, door and other special finishes. Submit duplicate 200 x 300mm sample panels of each paint type, colour, and gloss specified. Use 10mm maple plywood for wood finishes, 10mm wallboard for paint finishes over smooth surfaces and 50mm concrete block for concrete masonry.

3.1.1.2 Quality Control: Engage CPCA representative to review work of the section.

3.1.1.3 Environmental Requirements: Do not apply paint finish in areas where dust is being generated. Conform to requirements of CPCA manual.

3.1.1.4 Provide product data, application instructions, safety data sheets for incorporation into Operations and Maintenance Manual.

3.1.1.5 Maintenance Materials: provide one (1) unopened container (min. quantity 3.78l) of each type of paint, in each colour specified, for maintenance use.

3.1.2 **Design:**

3.1.2.1 Paint in accordance with formulae listed in CPCA manual for the various substrates.

- 3.1.2.2 Select formulae which use solvent free or low VOC products only.
- 3.1.3 **Materials/Finishes:**
 - 3.1.3.1 Qualified products: only paint materials listed on the CGSB Qualified Products List are acceptable for use on this project and from the following manufacturers:
 - 3.1.3.1.1 Benjamin Moore & Co.
 - 3.1.3.1.2 Pratt & Lambert
 - 3.1.3.1.3 Sherwin Williams
 - 3.1.3.1.4 ICC (Glidden) Paints
 - 3.1.3.1.5 International Paints.
 - 3.1.3.2 Paint materials for each coating formulae to be products of a single manufacturer.
 - 3.1.3.3 Formulae Schedule:
 - 3.1.3.3.1 Formula 1: for concrete block and poured concrete walls apply: one coat primer-sealer [CGSB 1-GP-119M-Amdt-Sep-80], two coats semi-gloss enamel [CGSB 1-GP-57M].
 - 3.1.3.3.2 Formula 4: for poured concrete ceilings apply: one coat primer-sealer [CGSB 1-GP-119M-Amdt-Sep-80], two coats flat paint [CGSB 1-GP-118M].
 - 3.1.3.3.3 Formula 6: for plaster and gypsum board walls apply: one coat primer-sealer [CGSB 1-GP-119M-Amdt-Sep-80], two coats semi-gloss enamel [CGSB 1-GP-57M].
 - 3.1.3.3.4 Formula 9: for plaster and gypsum board ceilings apply: one coat primer sealer [CGSB 1-GP-119M-Amdt-Sep-80], one coat flat paint [CGSB 1-GP-118M].
 - 3.1.3.3.5 Formula 10: for plaster and gypsum board ceilings in washrooms and change rooms apply: one coat primer-sealer [CGSB 1-GP-119M-Amdt-Sep-80], one coat semi-gloss enamel [CGSB 1-GP-57M].
 - 3.1.3.3.6 Formula 13: for wood doors and trim to be painted apply one coat enamel undercoat [CGSB 1-GP-38M], two coats gloss enamel [CGSB 1-GP-60M].

- 3.1.3.3.7 Formula 14: for concrete floors apply: one coat enamel [CGSB 1-GP-66M] reduced by addition of 1 part [CGSB 1-GP-70M] thinner to eight parts of enamel, one coat enamel [CGSB 1-GP-66M].
- 3.1.3.3.8 Formula 16: for primed ferrous metal surfaces apply: one coat spot priming [CGSB 1-GP-40M], one coat enamel undercoat [CGSB 1-GP-38M], two coats gloss enamel [CGSB 1-GP-60M].
- 3.1.3.3.9 Formula 17: for galvanized and zinc coated metal apply: one coat vinyl wash primer [CGSB 1-GP-121M], one coat enamel undercoat [CGSB 1-GP-38M], two coats semi-gloss enamel [CGSB 1-GP-57M].
- 3.1.3.3.10 Formula 18: for zinc coated metal decking apply: one coat vinyl wash primer [CGSB 1-GP-121M], one coat enamel undercoat [CGSB 1-GP-38M], one coat flat paint [CGSB 1-GP-100M].
- 3.1.3.3.11 Formula 19: for woodwork to receive stained finish apply: one coat paste-filler, one coat pigmented stain [CGSB 1-GP-145M] Type 2, one coat shellac [CGSB 1-GP-16M-Amdt-Feb-81] Type 2, one coat varnish gloss [CGSB 1-GP-36M] Type 1, one coat varnish semi-gloss [CGSB 1-GP-36M] Type 2.
- 3.1.3.3.12 Formula 20: for woodwork to receive natural finish apply: one coat paste-filler, one coat shellac [CGSB 1-GP-16M-Amdt-Feb-81] Type 2, one coat varnish gloss [CGSB 1-GP-36M] Type 1, one coat varnish semi-gloss [CGSB 1-GP-36M] Type 2.
- 3.1.3.3.13 Formula 23: for insulation covering apply: one coat tinted enamel undercoat [CGSB 1-GP-38M], one coat gloss enamel [CGSB 1-GP-60M], one coat semi-gloss enamel [CGSB 1-GP-57M].
- 3.1.3.3.14 Formula 36: for primed ferrous metal surfaces apply: one coat spot priming [CGSB 1-GP-40M], one coat lead primer [CGSB 1-GP-140M], two coats exterior enamel [CGSB 1-GP-59M].
- 3.1.3.3.15 Formula 37: for galvanized and zinc coated metal apply: one coat vinyl wash primer [CGSB 1-GP-121M], one coat steel primer [CGSB 1-GP-40M], two coats exterior enamel [CGSB 1-GP-59M].

3.1.4 **Fabrication/Installation:**

3.1.4.1 Preparation:

3.1.4.1.1 Prepare wood surfaces to *[CGSB 85-GP-1M]*.

3.1.4.1.2 Use *[CGSB 1-GP-126M-Amdt-Jul-78]* vinyl sealer over knots resinous areas.

3.1.4.1.3 Apply wood paste filler to nail holes and cracks.

3.1.4.1.4 Tint filler to match stains for stained woodwork.

3.1.4.2 Touch up shop paint primer on steel with *[CGSB 1-GP-40M to CGSB 85-GP-14M]*.

3.1.4.3 Prepare galvanized steel and zinc-coated surfaces to *[CGSB 85-GP-16M]*.

3.1.4.4 Prepare masonry, stucco and concrete surfaces to *[CGSB 85-GP-31M]*.

3.1.4.5 Prepare concrete floors to *[CGSB 85-GP-32M]*.

3.1.4.6 Prepare plaster and wallboard surfaces to *[CGSB 85-GP-33M]*. Fill minor cracks with plaster patching compound.

3.1.4.7 Prepare asbestos-cement surfaces to *[CGSB 85- GP-31M]*.

3.1.4.8 Vacuum fibre acoustic tile and insulation covering surfaces.

3.1.4.9 Prepare copper piping and accessories to *[CGSB 85-GP-20M]*.

3.1.4.10 Application:

3.1.4.11 Sand and dust between each coat to remove defects visible from distance up to 1.5m.

3.1.4.12 Finish bottoms, edges, tops and cutouts of doors after fitting as specified for door surfaces.

3.1.4.13 Finish tops of cabinets and projecting ledges, both above and below sight lines as specified for surrounding surfaces.

3.1.4.14 Finish closets and alcoves as specified for adjoining rooms.

3.1.4.15 Prepare surfaces and execute work in accordance with CPCA manual.

End of Section