

Part 1 - General

1.1 QUALITY ASSURANCE

- .1 The contractor shall have a minimum of five (5) years satisfactory experience and shall maintain a qualified crew of painters throughout the duration of the project.
- .2 Only qualified journeypersons, as defined by the local jurisdiction shall be engaged in painting work. Apprentices may be employed provided they work under direct supervision of a qualified journeyperson in accordance with trade regulations.
- .3 The best practices specified in CAN/CGSB-85.100-93, Painting, shall govern for painting materials, methods and procedures, unless specified otherwise in this section.
- .4 All paint manufactures and products used shall be as listed under the Approved Products List section of this Specification. Request for equals must be made to the Architect before Tenders close.
- .5 The painting contractor shall receive written confirmation of the specific surface preparation procedure and primers used for all fabricated steel items from the fabricator / supplier to ascertain appropriated and manufacturer compatible finish coat materials to be used before painting any such work.

1.2 REFERENCES

- .1 ASTM D523-85, Test Method for Specular Gloss
- .2 1-GP-116a, Pretreatment solution for galvanized steel.
- .3 1-GP-38M, Pure soya alkyd enamel undercoat/primer for int.wood/steel.
- .4 1-GP-189M, Pure soya alkyd enamel undercoat/primer for ext.wood.
- .5 1-GP-40M, Anti-rust primer exterior, alkyd, for steel.
- .6 1-GP-57M, Finish interior, alkyd, semi gloss enamel for interior wood.
- .7 1-GP60M, Finish int./ext., alkyd, high gloss enamel for wood/steel.
- .8 1GP-118M, Finish interior, alkyd, flat.
- .9 1-GP-119M, Primer/sealer interior, latex, flat.
- .10 1-GP-188M, Block filler interior/exterior, latex, flat.
- .11 1-GP-100M, Paint interior, 100% pure acrylic latex, flat.
- .12 1-GP-195M, Paint interior, 100% pure acrylic latex, semi-gloss.
- .13 1-GP-202M, Finish interior, alkyd melamine low-lustre enamel.
- .14 1-GP-145M, Stain, pigmented, oil/alkyd.

	.15	1-GP-175M, Finish interior, oil modified urethane varnish, stain.
<u>1.3 REGULATORY REQUIREMENTS</u>	.1	Conform to work place safety regulations and requirements of those authorities having jurisdiction for storage, mixing, application and disposal of all paint and related hazardous material.
<u>1.4 SUBMITTAL REQUIREMENTS</u>	.1	Submit Product Data as per Section 013300
	.2	Submit Material Safety Data Sheets (MSDS) prior to commencement of work for review and for posting at job site as required.
	.3	At project completion provide an itemized list complete with manufacturer, paint type and color-coding for all colors used for Owner's later use in maintenance.
<u>1.5 PRODUCT DELIVERY / STORGAE / HANDLING</u>	.1	Deliver and store all painting materials in sealed, original labeled containers bearing manufacturer's name, brand name, type of paint or coating and colour designation, standard compliance, materials content as well as mixing and/or reducing and application requirements in strict accordance with manufacturer and reference standards requirements.
	.2	Store paint materials at a minimum ambient temperature of 7 deg. C in a well ventilated and heated area.
	.3	Take all precautionary measures to prevent fire hazards and spontaneous combustion.

Part 2 - Products

2.1 MATERIALS

- .1 Solvents throughout shall be odor-free type, Laytex paint shall be 0 VOC
- .2 Unless otherwise specified herein or pre-approved, all paint shall be ready-mixed and pre-tinted. Re-mix all paint in containers prior to and during application to ensure break-up of lumps, complete dispersion of settled pigment, and color and gloss uniformity. Where thinner is used, addition shall not exceed paint manufacturer's recommendations. Paint materials for each coating formulae to be products of a single manufacturer. Other materials such as linseed oil, shellac, thinners, solvents, etc. shall be the highest quality product and shall be compatible with paint materials being used as required.

- .3 Colours shall be as selected by the Department Representative
- .4 Finishes:
 - .1 For concrete floor slab, equipment bases and housekeeping Pads apply:
 - .1 One (1) Primer coat – MPI#116
 - .2 Two (2) finish coats epoxy – MPI#77
 - .2 For new concrete block walls and revised concrete block at Thimbles apply:
 - .1 One (1) coat of heavy duty block filler – MPI#116.
 - .2 Two (2) finish coats of semi-gloss epoxy – MPI#77.
 - .3 For Galvanized Steel at Louvre Opening apply:
 - .1 Degreaser with Tri-sodium Phosphate
 - .2 One (1) coat of water –based Galvanized primer – MPI#134.
 - .3 Two (2) coats of institutional low odor / VOV paint – MPI#144.
 - .4 For new plywood backerboards for mechanical and electrical service panels apply:
 - .1 Spot primer to knots and resinous areas.
 - .2 One (10 coat of latex primer – MPI#39.
 - .3 Two (2) coats of institutional low odor / VOC latex semi-gloss enamel – MPI#147.

Part 3 - Execution

3.1 SITE AND SUBSTRATE CONDITIONS

- .1 Do not paint unless substrates are acceptable and/or until all environmental conditions (heating, ventilation, lighting and completion of other sub-trade work) are acceptable for applications of products.
- .2 Humidity: Measure moisture content of substrate and surfaces by electronic moisture meter to the following:
 - .1 Concrete, concrete block: 12%
 - .2 Wallboard: 12% maximum
 - .3 Wood: 15%
- .3 Thoroughly vacuum all surfaces to be painted
- .4 Furnish sufficient drop cloths, shields and protective equipment to prevent spray or dropping from fouling surface not being painted
- .5 Place cotton wastes, cloths and materials which may constitute a fire hazard in metal containers and remove

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- daily from site.
- .6 Remove all electrical plates, surface hardware, fittings and fastenings, prior to painting operations. These items shall be stored and replaced on completion of work in each area.
- 3.2 PREPARATION OF SURFACE .1 The condition and preparation for all surfaces shall be in accordance with CGSB requirements.
- 3.3 APPLICATION
- .1 Apply paint or stain in accordance with CGSB requirements. Cover surface completely and satisfactorily with an even color tone.
- .2 Sand and dust between each coat to remove defects visible from distance up to 1.5 meters.
- .3 Do not recoat until dry
- .4 Back prime all interior/exterior surfaces before installation.
- .5 Painting coats specified are intended to cover surfaces satisfactorily when applied at proper consistency and in accordance with manufacturer's recommendations.
- .6 Paint all surfaces to remain exposed in the finished work whether specifically indicated or not, except shop-and-factory-finished items indicated not to be painted. No new surface shall have less than one prime coat and two finish coats.
- 3.4 CLEANING
- .1 Remove all spilled, splashed, splattered or over sprayed paint as work progresses.
- .2 Remove waste materials and keep area free from unnecessary accumulation of tools, equipment, surplus materials and debris.

END OF SECTION