

Part 1 General

1.1 REFERENCES

- .1 ASTM International
 - .1 ASTM C475/C475M-15, Standard Specification for Joint Compound and Joint Tape for Finishing Gypsum Board.
 - .2 ASTM C645-14, Standard Specification for Nonstructural Steel Framing Members.
 - .3 ASTM C754-15, Standard Specification for Installation of Steel Framing Members to Receive Screw-Attached Gypsum Panel Products.
 - .4 ASTM C840-13, Standard Specification for Application and Finishing of Gypsum Board.
 - .5 ASTM C1002-07, Standard Specification for Steel Self-Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs.
 - .6 ASTM C1047-14a, Standard Specification for Accessories for Gypsum Wallboard and Gypsum Veneer Base.
 - .7 ASTM C1396/C1396M-06a, Standard Specification for Gypsum Wallboard.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB 51.34-M86, Vapour Barrier, Polyethylene Sheet for Use in Building Construction.
- .3 Gypsum Association (GA)
 - .1 GA-214-15, Recommended Levels of Finish for Gypsum Board, Glass Mat, and Fiber-Reinforced Gypsum Panels.
 - .2 GA-216-13, Application and Finishing of Gypsum Panel Products.
- .4 Underwriters' Laboratories of Canada (ULC)
 - .1 CAN/ULC-S101-07, Fire Endurance Tests of Building Construction and Materials.

1.2 SUBMITTALS

- .1 Submit in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's instructions, printed product literature and data sheets for gypsum board assemblies. Include product characteristics, performance criteria, physical size, finish and limitations.

1.3 REGULATORY REQUIREMENTS

- .1 Conform to applicable code for fire rated assemblies in conjunction with Section 09 22 16 as follows:

- .1 Fire resistance classifications to CAN/ULC S101.
- .2 Fire rated Design Assembly No. as listed on Drawings.

1.4 DELIVERY, STORAGE, AND HANDLING

- .1 Deliver, store, and handle materials in accordance with Section 01 61 00 - Common Product Requirements and with manufacturer's written instructions.
- .2 Deliver materials to site in original packaging, labelled with manufacturer's name and identification.
- .3 Storage and Handling Requirements:
 - .1 Store gypsum board assemblies materials level off ground and indoors and in accordance with manufacturer's recommendations in clean, dry, well-ventilated area.
 - .2 Store and protect gypsum board assemblies from nicks, scratches, and blemishes.
 - .3 Protect from weather, elements and damage from construction operations.
 - .4 Handle gypsum boards to prevent damage to edges, ends or surfaces.
 - .5 Replace defective or damaged materials with new.

1.5 AMBIENT CONDITIONS

- .1 Maintain temperature 10°C minimum, 21°C maximum for 48 hours prior to and during application of gypsum boards and joint treatment, and for 48 hours minimum after completion of joint treatment.
- .2 Apply board and joint treatment to dry, frost-free surfaces.
- .3 Ventilate building spaces as required to remove excess moisture that would prevent drying of joint treatment material immediately after its application.

Part 2 Products

2.1 MATERIALS

- .1 Standard gypsum board: ASTM C1396/C1396M, Type X, thickness as shown on Drawings, 1200 mm wide x maximum practical length, ends square cut.
- .2 Veneer plaster base: ASTM C1396/C1396M, gypsum core lathing panel with face paper for use under veneer plaster finishes.
- .3 Metal furring runners, hangers, tie wires, inserts, anchors: ASTM C754.
- .4 Resilient channels: To ASTM C645, 0.58 mm (22 mil) thick steel, G40, with integral pre-punched attachment flange, screw attached.
 - .1 Furring channel is not acceptable.
- .5 J-moulding/trim: Extruded aluminum, 6063-T5 alloy, clear anodized finish.
- .6 Steel drill screws: ASTM C1002.

- .7 Casing beads, corner beads, control joints and edge trim: to ASTM C1047, metal, zinc-coated by hot-dip process, perforated flanges, one piece length per location.
- .8 Sealants: In accordance with Section 07 92 00 - Joint Sealants.
- .9 Polyethylene: CAN/CGSB 51.34, Type 2.
- .10 Joint tape: ASTM C475, 52 mm wide fibre paper tape.
- .11 Joint compound: ASTM C475, asbestos-free.

2.2 FRAMING MATERIALS

- .1 Studs and Tracks: As specified in Section 09 22 16.
- .2 Furring, framing, and accessories: ASTM C645.
- .3 Anchorage to substrate: Tie wire, nails, screws, and other metal supports, of type and size to suit application, and to rigidly secure materials in place.
 - .1 Tie wire: To ASTM C754.
 - .2 Hangers: To ASTM C754, galvanized.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify conditions of substrates are acceptable for installation of gypsum board assemblies in accordance with manufacturer's written instructions.
 - .1 Visually inspect substrate.
 - .2 Inform DCC Representative of unacceptable conditions.
 - .3 Proceed with installation only after unacceptable conditions have been remedied.

3.2 ERECTION

- .1 Apply and finish gypsum board to ASTM C840 or GA-216 except where specified otherwise.
- .2 Frame with furring channels, perimeter of openings for light fixtures, diffusers, grilles, and other through-wall mounted items.
- .3 Furr openings and around access panels on four sides. Extend furring into reveals. Check clearances with equipment suppliers.
- .4 Install furring channels parallel to, and at exact locations of, steel stud partition header track.
- .5 Furr for gypsum board faced vertical bulkheads within and at termination of ceilings.
- .6 Install wall furring for gypsum board wall finishes to ASTM C840, except where specified otherwise.

- .7 Erect drywall resilient furring transversely across studs, spaced maximum 600 mm on centre and not more than 150 mm from ceiling/wall juncture. Secure to each support with drywall screws.
- .8 Install 150 mm continuous strip of 12.7 mm gypsum board along base of partitions where resilient furring installed.

3.3 APPLICATION

- .1 Apply gypsum board after bucks, anchors, blocking, sound attenuation, electrical work, and mechanical work have been approved.
- .2 Apply single layer standard gypsum board in most economical direction, with ends and edges occurring over firm bearing.
- .3 Apply gypsum board to resilient channel, furring, and framing using screw fasteners. Maximum spacing of screws 300 mm on centre.
 - .1 Single-Layer Application:
 - .1 Apply gypsum board on ceilings to ASTM C840 prior to application of walls.
 - .2 Apply gypsum board vertically or horizontally, providing sheet lengths that will minimize end joints.
 - .2 Double-Layer Application:
 - .1 Install gypsum board for base layer and exposed gypsum board for face layer.
 - .2 Apply base layer to ceilings prior to base layer application on walls; apply face layers in same sequence. Offset joints between layers at least 250 mm.
 - .3 Apply base layers at right angles to supports unless otherwise indicated.
 - .4 Apply base layer on walls and face layers vertically with joints of base layer over supports and face layer joints offset at least 250 mm with base layer joints.
- .4 Install fire rated gypsum board in accordance with applicable ULC design number.
- .5 Install gypsum board with face side out.
- .6 Do not install damaged or damp boards.
- .7 Locate edge or end joints over supports. Stagger vertical joints over different studs on opposite sides of wall.

3.4 INSTALLATION - GENERAL

- .1 Erect accessories straight, plumb or level, rigid and at proper plane. Use full length pieces where practical. Make joints tight, accurately aligned and rigidly secured. Mitre and fit corners accurately, free from rough edges. Secure using contact adhesive for full length.

- .2 Install casing beads where gypsum board butts against surfaces having no trim concealing junction and where indicated. Seal joints with sealant.
- .3 Finish face panel joints and internal angles with joint system consisting of joint compound, joint tape, and taping compound installed according to manufacturer's directions and feathered out onto panel faces.
- .4 Place corner beads at external corners.
 - .1 Use longest practical length.
 - .2 Place edge trim where gypsum board abuts dissimilar materials.
- .5 Finish gypsum board walls and ceilings to following levels in accordance with GA-214:
 - .1 Levels of finish:
 - .1 Level 1 – for concealed areas: Embed tape for joints and interior angles in joint compound. Surfaces to be free of excess joint compound; tool marks and ridges are acceptable.
 - .2 Level 4 – for exposed areas: Embed tape for joints and interior angles in joint compound and apply three separate coats of joint compound over joints, angles, fastener heads and accessories; surfaces smooth and free of tool marks and ridges.
- .6 Finish corner beads and trim as required with two coats of joint compound and one coat of taping compound, feathered out onto panel faces.
- .7 Fill screw head depressions with joint and taping compounds to bring flush with adjacent surface of gypsum board so as to be invisible after surface finish is completed.
- .8 Sand lightly to remove burred edges and other imperfections. Avoid sanding adjacent surface of board.
- .9 Completed installation to be smooth, level or plumb, free from waves and other defects and ready for surface finish.

3.5 TOLERANCES

- .1 Maximum variation of finished gypsum board surface from true flatness: 3 mm in 3 m, in any direction.

3.6 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning. Leave Work area clean at end of each day.
- .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .3 Waste Management: Remove waste materials in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

3.7 PROTECTION

- .1 Protect installed products and components from damage during construction.

- .2 Repair damage to adjacent materials caused by installation of gypsum board assemblies.

END OF SECTION

Part 1 General

1.1 REFERENCES

- .1 ASTM C28/C28M-00 (2005) - Gypsum Plasters.
- .2 ASTM C206-03 - Finishing Hydrated Lime.
- .3 ASTM C842-05 - Application of Interior Gypsum Plaster.
- .4 ASTM C1002-07 - Steel Self-Piercing, Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs.

1.2 SUBMITTALS

- .1 Section 01 33 00: Submittal Procedures.
- .2 Product Data: Provide data on plaster materials, characteristics, and limitations of products specified.

1.3 MOCK-UPS

- .1 Section 01 45 00: Quality Control - Requirements for mock-up.
- .2 Prepare mock-up to match historic lath and plaster, on plywood substrate, in presence of Departmental Representative. Prepare mock-up as stand-alone assembly.
- .3 Construct 1200 x 1200 mm wide mock-up, showing application technique, quality of work, and visual match to existing surface texture.
- .4 Construct mock-up in location acceptable to Departmental Representative.
- .5 Approved mock-up may not remain as part of the Work.
- .6 Retain approved mock-up as standard for quality of work. Remove mock-up when acceptable to Departmental Representative.

1.4 ENVIRONMENTAL REQUIREMENTS

- .1 Do not apply plaster when substrate or ambient air temperature is less than 10°C nor more than 27°C.
- .2 Maintain minimum ambient temperature of 13°C during and after installation of plaster.

Part 2 Products

2.1 LATH FOR HISTORICAL PLASTER

- .1 Wood lath for historical plaster repair: To match existing in dimensions, species, and grain; and as specified in Section 06 10 00 – Rough Carpentry.

2.2 GYPSUM BOARD FOR VENEER PLASTER

- .1 Veneer plaster gypsum board as specified in Section 09 21 16 – Gypsum Board Assemblies.

2.3 PLASTER BASE COAT MATERIALS

- .1 Plaster: ASTM C28/C28M; gypsum neat hardwall type, unfibrated.
- .2 Water: Clean, fresh, potable and free of mineral or organic matter which can affect plaster.

2.4 PLASTER FINISH COAT MATERIAL

- .1 Gypsum/Lime Putty Type: ASTM C28/C28M; mixture of gauging plaster and lime.
- .2 Water: Clean, fresh, potable, and free of mineral and organic matter that may affect plaster.

2.5 ACCESSORIES

- .1 Beads: Formed zinc, depth governed by plaster thickness, maximum possible lengths, expanded metal flanges, with bullnosed edges; galvanized.
- .2 Anchorage: Nails, staples, or other approved metal supports, of type and size to suit application, to rigidly secure lath and associated metal accessories in place.
- .3 Fasteners: ASTM C1002, self drilling, self tapping screws.

2.6 PLASTER MIX

- .1 Mix and proportion plaster to ASTM C842.

Part 3 Execution

3.1 EXAMINATION

- .1 Verify existing conditions before starting work.
- .2 Grounds and Blocking: Verify items within walls for other sections of work have been installed.

- .3 Lath and Accessories: Verify lath is flat, secured to substrate, and joint and surface perimeter accessories are in place.
- .4 Ensure joints are reinforced
- .5 Mechanical and Electrical: Verify services within walls have been tested and approved.

3.2 PLASTERING – HISTORICAL

- .1 Apply wood lath, spaced as in original installation.
- .2 Bevel edges of existing plaster to accept new plaster repair.
- .3 Apply gypsum plaster in accordance with ASTM C842.
- .4 Apply scratch, brown, and finish coats over lath surfaces by trowel.
- .5 Apply gypsum plaster in coats of thicknesses to match existing.
- .6 Scratch Coat:
 - .1 Apply specified scratch coat, thickness to match existing, using sufficient pressure to force it between gaps of lath. Ensure even surface.
 - .2 Scratch surface with broom when initial set is obtained (2-4 days).
- .7 Intermediate brown coat:
 - .1 Wet scratch coat 1 hour before application of brown coat.
 - .2 Apply brown coat in thickness to match existing.
- .8 Finish coat:
 - .1 Wet intermediate brown coat thoroughly. Eliminate standing water from surface.
 - .2 Apply specified finish coat to minimum 3 mm thickness.
 - .3 Smooth finish coat with trowel to achieve desired texture and appearance.
 - .4 Trowel patch work to surface, even and visually matching with adjacent work.
- .9 Allow for sufficient curing of scratch and brown coats before application of next coats. Keep plaster damp to ensure proper curing.
 - .1 Maintain temperature between 13 and 21 degrees Celsius during curing.
- .10 Work the finish coat to match existing, as directed by Departmental Representative.
- .11 Perform work in panels to nearest natural break or between accessories.

3.3 VENEER PLASTERING

- .1 Basecoat:
 - .1 Apply initial basecoat application (scratch coat) to gypsum lath and masonry, by hand with sufficient material and pressure to form good bond to base and to cover well.
 - .2 Double back to bring plaster out to grounds.
 - .3 Straighten to a true surface with rod and darby without use of additional water.
 - .4 Leave surface rough to receive a plaster finish.
- .2 Finishing Plaster:
 - .1 Scratch plaster in thoroughly and immediately double back to fill out to smooth, dense surface for decoration, free of surface blemishes and irregularities.
 - .2 Apply 1.6 mm finish coat.
 - .3 Trowel plaster after set to achieve dense, hard, smooth surface.
 - .4 Match texture and finish to match existing plaster.

3.4 CLEANING

- .1 Progress Cleaning: clean in accordance with Section 01 74 11 - Cleaning.
 - .1 Leave Work area clean at end of each day.
 - .2 Final Cleaning: upon completion remove surplus materials, rubbish, tools and equipment in accordance with Section 01 74 11 - Cleaning.
- .2 Waste Management: Remove waste materials for in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.

END OF SECTION

Part 1 General

1.1 REFERENCES

- .1 Department of Justice Canada (Jus)
 - .1 Canadian Environmental Protection Act (CEPA), 1999, c. 33.
- .2 Health Canada / Workplace Hazardous Materials Information System (WHMIS)
 - .1 Material Safety Data Sheets (MSDS).
- .3 Master Painters Institute (MPI)
 - .1 MPI Architectural Painting Specifications Manual, current edition.
 - .2 MPI Architectural Repainting Manual, current edition.

1.2 SCHEDULING

- .1 Submit work schedule for various stages of painting to Departmental Representative for review. Submit schedule minimum of 48 hours in advance of proposed operations.
- .2 Obtain written authorization from Departmental Representative for changes in work schedule.
- .3 Schedule painting operations to prevent disruption of occupants.

1.3 SUBMITTALS

- .1 Submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit product data and instructions for each paint and coating product to be used.
 - .2 Submit two copies of Workplace Hazardous Materials Information System (WHMIS) Material Safety Data Sheets (MSDS) for products used. Indicate VOCs during application and curing.
- .3 Samples:
 - .1 Submit full range colour sample chips to indicate where colour availability is restricted.
 - .2 Submit duplicate 200 x 200 mm sample panels with each specified paint or coating; in colours, gloss/sheen, and textures required, to MPI Architectural Painting Specification Manual standards on following substrate materials:
 - .1 3 mm plate steel for finishes over metal surfaces.
 - .2 13 mm gypsum board for finishes over gypsum board and other smooth surfaces.
 - .3 13 mm thick pine for finishes over wood surfaces.
 - .3 Retain reviewed samples on-site to demonstrate acceptable standard of quality for appropriate on-site surface.

- .4 Certificates: Submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.
- .5 Manufacturers' Instructions:
 - .1 Submit manufacturers' application instructions.
- .6 Closeout Submittals: Submit maintenance data for incorporation into manual specified in Section 01 78 00 - Closeout Submittals. For each product used, include:
 - .1 Product name, type and use.
 - .2 Manufacturer's product number.
 - .3 Colour numbers.

1.4 MAINTENANCE

- .1 Extra Materials:
 - .1 Deliver to extra materials from same production run as products installed. Package products with protective covering and identify with descriptive labels. Comply with Section 01 78 00 - Closeout Submittals.
 - .2 Quantity: Provide one - 4 litre can of each type and colour of primer and finish coating. Identify colour and paint type in relation to established colour schedule and finish system.
 - .3 Delivery, storage, and protection: Comply with Departmental Representative requirements for delivery and storage of extra materials.

1.5 DELIVERY, STORAGE AND HANDLING

- .1 Pack, ship, handle, and unload materials in accordance with Section 01 61 00 - Common Product Requirements and manufacturer's written instructions.
- .2 Acceptance at Site:
 - .1 Identify products and materials with labels indicating:
 - .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 Remove damaged, opened and rejected materials from site.
- .4 Storage and Protection:
 - .1 Provide and maintain dry, temperature controlled, secure storage.
 - .2 Store materials and supplies away from heat generating devices.
 - .3 Store materials and equipment in well-ventilated area with temperature range 7°C to 30°C.
- .5 Store temperature sensitive products above minimum temperature as recommended by manufacturer.
- .6 Keep areas used for storage, cleaning and preparation clean and orderly. After completion of operations, return areas to clean condition.

- .7 Remove paint materials from storage only in quantities required for same day use.
- .8 Fire Safety Requirements:
 - .1 Provide one 9 kg Type ABC dry chemical 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 National Fire Code of Canada requirements.
- .9 Waste Management and Disposal:
 - .1 Place materials defined as hazardous or toxic in designated containers.
 - .2 Handle and dispose of hazardous materials in accordance with CEPA, TDGA, Regional, and Municipal regulations.
 - .3 Ensure emptied containers are sealed and stored safely.
 - .4 Unused paint and coating materials must be disposed of at official hazardous material collections site as approved by Departmental Representative.
 - .5 Paint 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.
 - .6 Material that cannot be reused must be treated as hazardous waste and disposed of in an appropriate manner.
 - .7 Place materials defined as hazardous or toxic waste, including used sealant and adhesive tubes and containers, in containers or areas designated for hazardous waste.
 - .8 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).

1.6 SITE CONDITIONS

- .1 Heating, Ventilation, and Lighting:

- .1 Provide continuous ventilation for seven days after completion of application of paint.
- .2 Coordinate use of existing ventilation system with Departmental Representative and ensure its operation during and after application of paint as required.
- .3 Provide temporary ventilating and heating equipment where permanent facilities are not available or supplemental ventilating and heating equipment if ventilation and heating from existing system is inadequate to meet minimum requirements.
- .4 Provide minimum lighting level of 323 Lux on surfaces to be painted.
- .2 Temperature, Humidity, and Substrate Moisture Content Levels:
 - .1 Unless pre-approved written approval by Specifying body and product manufacturer, perform no painting when:
 - .1 Ambient air and substrate temperatures are below 10°C.
 - .2 Substrate temperature is above 32°C unless paint is specifically formulated for application at high temperatures.
 - .3 Substrate and ambient air temperatures are not expected to fall within paint manufacturer's prescribed limits.
 - .4 The relative humidity is under 85% or when the dew point is more than 3°C variance between the air/surface temperature. Paint should not be applied if the dew point is less than 3°C below the ambient or surface temperature.
 - .5 Rain or snow is forecast to occur before paint has thoroughly cured or when it is foggy, misty, raining, or snowing at site.
 - .6 Ensure that conditions are within specified limits during drying or curing process, until newly applied coating can withstand 'normal' adverse environmental factors.
 - .2 Perform painting work when maximum moisture content of the substrate is below:
 - .1 12% for plaster and gypsum board.
 - .1 15% for wood.
 - .3 Test for moisture using calibrated electronic Moisture Meter.
 - .4 Test concrete, masonry and plaster surfaces for alkalinity as required.
- .3 Surface and Environmental Conditions:
 - .1 Apply paint finish in areas where dust is no longer being generated by related construction operations or when wind or ventilation conditions are such that airborne particles will not affect quality of finished surface.
 - .2 Apply paint to adequately prepared surfaces and to surfaces within moisture limits.
 - .3 Apply paint when previous coat of paint is dry or adequately cured.
- .4 Additional interior application requirements:
 - .1 Apply paint finishes when temperature at location of installation can be satisfactorily maintained within manufacturer's recommendations.

- .2 Apply paint in occupied facilities during silent hours only. Schedule operations to approval of Departmental Representative such that painted surfaces will have dried and cured sufficiently before occupants are affected.

Part 2 Products

2.1 MATERIALS

- .1 Linseed oil paint: Produced with linseed oil base, solvent free. Colour: As selected by Departmental Representative.
 - .1 White: Titanium oxide and chalk.
 - .2 Coloured: Metal oxide and earth pigment.
- .2 Linseed oil: Cold-pressed, boiled, purified to remove protein and impurities; produced from organically grown flax seed, solvent free.
- .3 Interior paint: MPI approved for systems indicated.
- .4 Turpentine: Distilled from pine resin, purified, free of impurities. Mineral spirits are not permitted.
- .5 Paint colours: Review requirements for colours with Departmental Representative. Provide samples as specified for selection of colours.

2.2 MIXING AND TINTING

- .1 Perform colour tinting operations prior to delivery of paint to site.
- .2 Use and add thinner in accordance with paint manufacturer's recommendations. Do not use kerosene or similar organic solvents to thin water-based paints.
- .3 Re-mix paint in containers prior to and during application to ensure break-up of lumps, complete dispersion of settled pigment, and colour and gloss uniformity.

2.3 INTERIOR PAINTING SYSTEMS

- .1 Gypsum board and plaster:
 - .1 MPI INT 9.2M - Institutional low odour/low VOC finish.
 - .1 Ceilings: Match gloss to existing ceilings.
 - .2 MPI INT 9.2B – High performance architectural latex over latex primer/sealer.
 - .1 Walls: Match gloss to existing walls.
- .2 Wood trim: Baseboard and chair rail.
 - .1 MPI INT 6.3A – High performance architectural latex over latex primer, gloss to match existing.

2.4 INTERIOR REPAINTING SYSTEMS

- .1 Plaster:

- .1 MPI RIN 9.2B – High performance architectural latex, gloss to match existing.

2.5 EXTERIOR PAINTING SYSTEMS

- .1 Wood siding, exterior carpentry:
 - .1 Pre-treatment with linseed oil/turpentine blend.
 - .2 Paint: Linseed oil paint, 3 coats.
- .2 Windows:
 - .1 Linseed oil paint, 3 coats.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and data sheet.

3.2 GENERAL

- .1 Perform preparation and operations for interior painting in accordance with MPI Architectural Painting Specifications Manual except where specified otherwise.
- .2 Apply paint materials in accordance with paint manufacturer's written application instructions.

3.3 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.
- .2 Conduct moisture testing of surfaces to be painted using properly calibrated electronic moisture meter, except test concrete floors for moisture using simple "cover patch test". Do not proceed with work until conditions fall within acceptable range as recommended by manufacturer.
- .3 Maximum moisture content as follows:
 - .1 Stucco, plaster and gypsum board: 12%.
 - .2 Wood: 15%.

3.4 PREPARATION

- .1 Protection:
 - .1 Protect existing building surfaces and adjacent structures from paint spatters, markings and other damage by suitable non-staining covers or masking. If damaged, clean and restore surfaces as directed by Departmental Representative.

- .2 Protect items that are permanently attached such as Fire Labels on doors and frames.
- .3 Protect factory finished products and equipment.
- .4 Protect passing pedestrians, building occupants, and general public in and about the building.
- .2 Surface Preparation:
 - .1 Remove electrical cover plates, light fixtures, surface hardware on doors, bath accessories and other surface mounted equipment, fittings and fastenings prior to undertaking painting operations. Identify and store items in secure location and re-installed after painting is completed.
 - .2 Move and cover furniture and portable equipment as necessary to carry out painting operations. Replace as painting operations progress.
 - .3 Place "WET PAINT" signs in occupied areas as painting operations progress. Signs to approval of Departmental Representative.
- .3 Clean and prepare surfaces in accordance with MPI Architectural Painting Specification Manual requirements. Refer to MPI Manual in regard to specific requirements and as follows:
 - .1 Remove dust, dirt, and other surface debris by vacuuming, or wiping with dry, clean cloths.
 - .2 Wash surfaces with a biodegradable detergent and clean warm water using a stiff bristle brush to remove dirt, oil and other surface contaminants.
 - .3 Rinse scrubbed surfaces with clean water until foreign matter is flushed from surface.
 - .4 Allow surfaces to drain completely and allow to dry thoroughly.
 - .5 Prepare surfaces for water-based painting, water-based cleaners should be used in place of organic solvents.
 - .6 Many water-based paints cannot be removed with water once dried. Minimize use of mineral spirits or organic solvents to clean up water-based paints.
- .4 Prevent contamination of cleaned surfaces by salts, acids, alkalis, other corrosive chemicals, grease, oil and solvents before prime coat is applied and between applications of remaining coats. Apply primer, paint, or pre-treatment as soon as possible after cleaning and before deterioration occurs.
- .5 Sand and dust between coats as required to provide adequate adhesion for next coat and to remove defects visible from a distance up to 1000 mm.
- .6 Touch up of shop primers with primer as specified.
- .7 Do not apply paint until prepared surfaces have been accepted by Departmental Representative.

3.5 SIDING – PRE-FINISHING AND PAINTING

- .1 Sand boards lightly to remove sawmill glaze.
- .2 Pre-finish siding and boards before installation:

- .1 Pre-treat backs and ends of boards with 50:50 mixture of linseed oil and turpentine. Apply in thin passes to saturation point of wood. Allow to dry.
- .2 Finish with 3 coats linseed oil paint on tops and sides of siding boards, all sides of trim boards.

3.6 APPLICATION

- .1 Method of application to be as approved by Departmental Representative. Apply paint by brush. Conform to manufacturer's application instructions unless specified otherwise.
- .2 Brush Application:
 - .1 Apply paint in uniform layers using brush type suitable for application.
 - .2 Match finish to existing surfaces in texture and gloss level.
 - .3 Work paint into cracks, crevices, and corners.
 - .4 Paint surfaces and corners not accessible to brush using spray, daubers and/or sheepskins.
 - .5 Brush out runs and sags, and over-lap marks.
 - .6 Remove runs, sags and brush marks from finished work and repaint.
- .3 Use dipping, sheepskins or daubers only when no other method is practical in places of difficult access.
- .4 Apply coats of paint continuous film of uniform thickness. Repaint thin spots or bare areas before next coat of paint is applied.
- .5 Allow surfaces to dry and properly cure after cleaning and between subsequent coats, for minimum time period as recommended by manufacturer.
- .6 Sand and dust between coats to remove visible defects.
- .7 Finish surfaces both above and below sight lines as specified for surrounding surfaces.
- .8 Finish closets and alcoves as specified for adjoining rooms.

3.7 SITE TOLERANCES

- .1 Walls: No defects visible from a distance of 1000 mm at 90 degrees to surface.
- .2 Ceilings: No defects visible from floor at 45 degrees to surface when viewed using final lighting source.
- .3 Final coat to exhibit uniformity of colour and sheen across full surface area.

3.8 RESTORATION

- .1 Clean and re-install hardware items removed before undertaken painting operations.
- .2 Remove protective coverings and warning signs as soon as practical after operations cease.

- .3 Remove paint splashings on exposed surfaces that were not painted. Remove smears and spatter immediately as operations progress, using compatible solvent.
- .4 Protect freshly completed surfaces from paint droppings and dust to approval of Departmental Representative. Avoid scuffing newly applied paint.
- .5 Restore areas used for storage, cleaning, mixing, and handling of paint to clean condition as approved by Departmental Representative.

END OF SECTION