

PART 1 – GENERAL

- 1.1 RELATED SECTIONS
- .1 Section 01 33 00 - Submittal Procedures.
 - .2 Section 01 74 22 - Construction/Demolition Waste Management and Disposal.
 - .3 Section 01 78 00 - Closeout Submittals.
- 1.2 REFERENCES
- .1 American Society for Testing and Materials (ASTM International)
 - .1 ASTM F 1066-99, Specification for Vinyl Composition Floor Tile.
 - .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-25.20-95, Surface Sealer for Floors.
 - .2 CAN/CGSB-25.21-95, Detergent-Resistant Floor Polish.
- 1.3 SAMPLES
- .1 Submit samples in accordance with Section 01 33 00 - Submittal Procedures.
 - .2 Submit duplicate tile in size specified, 300 mm long base,.
- 1.4 CLOSEOUT SUBMITTALS .
- 1 Provide maintenance data for resilient flooring for incorporation into manual specified in Section 01 78 00 – Closeout Submittals.
- 1.5 WASTE MANAGEMENT AND DISPOSAL
- .1 Separate and recycle waste materials in accordance with Section 01 74 19 - Construction/Demolition Waste Management And Disposal.
 - .2 Remove from site and dispose of packaging materials at appropriate recycling facilities.
 - .3 Dispose of unused finish and adhesive materials at official hazardous material collections site approved by Departmental Representative.
 - .4 Do not dispose of unused finish and adhesive materials into sewer system, into streams, lakes, onto ground or in other locations where it will pose health or environmental hazard.
- 1.6 ENVIRONMENTAL REQUIREMENTS
- .1 Maintain air temperature and structural base temperature at flooring installation area above 20° C for 48 hours before, during and for 48 hours after installation.
- 1.7 EXTRA MATERIALS
- .1 Provide maintenance materials of resilient tile flooring, base and adhesive in accordance with Section 01 78 00 - Closeout Submittals.

- .2 Provide 4m² of the field colour, pattern and type flooring material required for this project for maintenance use.
- .3 Extra materials to be from same production run as installed materials.
- .4 Clearly identify each container of floor tile and each container of adhesive.
- .5 Deliver to Departmental Representative, upon completion of the work of this section.
- .6 Store on site where directed by Departmental Representative.

PART 2 - PRODUCTS

2.1 MATERIALS

- .1 Vinyl Mineral tile: to ASTM F 1066, Composition 1 - non asbestos Class 2 – through pattern tile, embossed, 3 mm, 300 x 300 mm size. Use VMT which resembles the existing Floor tiles.
 - .1 Acceptable material: 'Armstrong' Standard Excelon Imperial texture.
- .2 Primers and adhesives: waterproof, recommended by flooring manufacturer for specific material on applicable substrate, above, at or below grade.
- .3 Sub-floor filler and leveller: white premix latex requiring water only to produce cementitious paste as recommended by flooring manufacturer for use with their product.
- .4 Sealer: type recommended by flooring manufacturer.
- .5 Wax: type recommended by flooring manufacturer.

PART 3 - EXECUTION

3.1 INSPECTION

- .1 Ensure concrete floors are dry, by using test methods recommended by tile manufacturer.

3.2 SUB-FLOOR TREATMENT

- .1 Remove sub-floor ridges and bumps. Fill low spots, cracks, joints, holes and other defects with sub-floor filler.
- .2 Clean floor and apply filler; trowel and float to leave smooth, flat hard surface. Prohibit traffic until filler cured and dry.
- .3 Remove or treat old adhesives to prevent residual, old flooring adhesives from bleeding through to new flooring and/or interfering with the bonding of new adhesives.
- .4 Prime, Seal, concrete to flooring manufacturer's printed instructions.

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- 3.3 TILE APPLICATION
- .1 Provide a high ventilation rate, during installation, and for 48 to 72 hours after installation. If possible, vent directly to the outside. Do not let contaminated air recirculate through a district or whole building air distribution system. Maintain extra ventilation for at least one month following building occupation.
 - .2 To minimize emissions from adhesives, use water-based, solvent-free styrenebutadiene-rubber adhesive - as recommended by manufacturer. Butadiene exposure may cause eye and nose irritations, headaches, dizziness, and vomiting.
 - .3 Apply adhesive uniformly using recommended trowel in accordance with flooring manufacturer's instructions. Do not spread more adhesive than can be covered by flooring before initial set takes place.
 - .4 Lay flooring with joints parallel to building lines to produce symmetrical tile pattern. Border tiles minimum half tile width, to match existing tile pattern and layout.
 - .5 As installation progresses, and after installation, roll flooring in 2 directions with manufacturer's recommended weight roller to ensure full adhesion.
 - .6 Cut tile and fit neatly around fixed objects.
 - .7 Terminate flooring at centerline of door in openings where adjacent floor finish or colour is dissimilar.
- 3.4 INITIAL CLEANING AND WAXING
- .1 Remove excess adhesive from floor, base and wall surfaces without damage.
 - .2 Clean, seal and wax floor and base surface to flooring manufacturer's instructions. In carpeted areas clean, seal and wax base surface before carpet installation.
- 3.5 PROTECTION OF FINISHED WORK
- .1 Protect new floors from time of final set of adhesive until final inspection.
 - .2 Protect floor with 13mm plywood sheeting for 48 hours after installation. Remove promptly after adhesive has set.

END

PART 1 - GENERAL

- 1.1 SECTION INCLUDES
- .1 Moisture testing of substrates.
 - .2 Surface preparation of substrates as required for acceptance of paint, including cleaning, small crack repair, patching, caulking, and making good surfaces and areas to limits defined under MPI Painting Maintenance Manual requirements.
 - .3 Specific pre-treatments noted herein or specified in the MPI Painting Maintenance Manual.
 - .4 Sealing/touch-up, spot priming, and/or full priming surfaces for repainting in accordance with MPI Painting Maintenance Manual requirements.
 - .5 Provision of safe and adequate ventilation as required where toxic and/or volatile/flammable materials are being used over and above temporary ventilation supplied by others.
- 1.2 RELATED SECTIONS
- .1 Section 01 33 00 - Submittal Procedures.
 - .2 Section 01 74 22 - Construction/Demolition Waste Management and Disposal.
 - .3 Section 01 45 00 - Quality Control.
 - .4 Section 01 61 00 - Common Product Requirements.
 - .5 Section 01 78 00 - Closeout Submittals.
 - .6 Section 08 11 14 - Metal Doors and Frames
- 1.3 REFERENCES
- .1 Maintenance Repainting Manual by the Master Painters Institute (MPI), including Identifiers, Evaluation, Systems, Preparation and Approved Product List.
 - .2 Test Method for Measuring Total Volatile Organic Compound Content of Consumer Products, Method 24 (for Surface Coatings) of the Environmental Protection Agency (EPA).
 - .3 National Fire Code of Canada.
- 1.4 QUALITY ASSURANCE
- .1 Contractor shall have a minimum of five years proven satisfactory experience. Provide a list of last three comparable jobs including, job name and location, specifying authority, and project manager.
 - .2 Qualified journeymen who have a "Tradesman Qualification Certificate of Proficiency" shall be engaged in painting work. Apprentices may be employed provided they work under the direct supervision of a qualified journeyman in accordance with applicable trade regulations.

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- .3 Conform to latest MPI requirements for interior painting work including cleaning, preparation and priming.
 - .4 Materials (primers, paints, coatings, varnishes, stains, lacquers, fillers, thinners, solvents, etc.) shall be in accordance with the latest edition of the MPI Approved Product List and shall be from a single manufacturer for each system used.
 - .5 Paint materials shall be the highest quality product of an approved manufacturer listed in MPI Maintenance Painting Manual and shall be compatible with other coating materials as required.
 - .6 Retain purchase orders, invoices and other documents to prove conformance with noted MPI requirements when requested by Departmental representative.
 - .7 Standard of Acceptance: When viewed using final lighting source surfaces shall indicate the following:
 - .1 Walls: No defects visible from a distance of 1000 mm at 90° to surface.
 - .2 Ceilings: No defects visible from floor at 45° to surface.
 - .3 Metal surfaces: No defects visible from a distance of 1000 mm at 90° to surface.
 - .4 Final coat to exhibit uniformity of colour and sheen across full surface area.
- 1.5 ENVIRONMENTAL PERFORMANCE REQUIREMENTS
- .1 Provide paint products meeting MPI "Environmentally Friendly" E2 (minimum) ratings based on VOC (EPA Method 24) content levels.
- 1.6 INSPECTION REQUIREMENTS
- .1 Interior painting work shall be inspected by the Departmental Representative. Painting contractor shall notify the Departmental Representative a minimum of one week prior to commencement of work and provide a copy of project repainting specification and Finish Schedule.
 - .2 Interior surfaces requiring painting shall be inspected by both painting contractor and Departmental Representative who shall notify the General Contractor in writing of defects or problems, prior to commencing painting work, or after surface preparation if unseen substrate damage is discovered.
 - .3 Where an assessed degree of surface degradation of DSD-1 to DSD-3 before preparation of surfaces for repainting is revealed to be DSD-4 after preparation, repair or replacement of such unforeseen defects discovered shall be rectified by others, as mutually agreed, before repainting is started.

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- .4 Where "special" painting or coating system applications (i.e. elastomeric coatings) or non-MPI listed products or systems are to be used, paint or coating manufacturer shall provide as part of work, certification of surfaces and conditions for specific paint or coating system application as well as on site supervision, inspection and approval of their paint or coating system application as required at no additional cost to Owner.
- 1.7 SCHEDULING OF WORK
- .1 Submit work schedule for various stages of painting to Departmental Representative for approval. Submit schedule a minimum of 48 hours in advance of proposed operations.
- .2 Paint occupied facilities in accordance with approved schedule. Schedule operations to approval of Departmental Representative such that painted surfaces will have dried and cured sufficiently before occupants are affected.
- .3 Obtain written authorization from Departmental Representative for changes in work schedule.
- .4 Schedule painting operations to prevent disruption by other trades if applicable and by occupants in and about the building.
- 1.8 SUBMITTALS
- .1 Submit product data and manufacturer's installation/application instructions for each paint and coating product to be used in accordance with the requirements of Section 01 33 00 - Submittal Procedures.
- .2 Submit full range colour sample chips for review and selection. Indicate where colour availability is restricted.
- .3 Submit WHMIS MSDS - Material Safety Data Sheets for paint and coating materials.
- .4 Upon completion, submit records of products used. List products in relation to finish system and include the following:
- .1 Product name, type and use (i.e. materials and location).
 - .2 Manufacturer's product number.
 - .3 Colour code numbers.
 - .4 MPI Environmentally Friendly classification system rating.
 - .5 Manufacturer's Material Safety Data Sheets (MSDS).

1.9 DELIVERY, HANDLING
AND STORAGE

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 – Common Product Requirements.
- .2 Deliver and store materials in original containers, sealed, with labels intact.
- .3 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.
- .4 Remove damaged, opened and rejected materials from site.
- .5 Observe manufacturer's recommendations for storage and handling.
- .6 Store materials and equipment in a secure, dry, well-ventilated area with temperature range between 7° C to 30° C. Store materials and supplies away from heat generating devices and sensitive products above minimum temperature as recommended by manufacturer.
- .7 Keep areas used for storage, cleaning and preparation, clean and orderly to approval of Consultant. After completion of operations, return areas to clean condition to approval of Departmental Representative.
- .8 Remove paint materials from storage in quantities required for same day use.
- .9 Comply with requirements of Workplace Hazardous Materials Information System (WHMIS) regarding use, handling storage, and disposal of hazardous materials.
- .10 Fire Safety Requirements:
 - .1 Provide one 9 kg Type ABC fire extinguisher adjacent to area inaccessible to Inmates.
 - .2 Store 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.

1.10 SITE
REQUIREMENTS

- .1 Heating, Ventilation and Lighting:
 - .1 Perform no repainting work unless sufficient heating facilities are in place to maintain ambient air and substrate temperatures above 10° C for 24 hours before, during and after paint application and until paint has cured sufficiently.
 - .2 Provide continuous ventilation for seven days after completion of application of paint.

- .3 Coordinate use of existing ventilation system with Departmental Representative and General Contractor and ensure its operation during and after application of paint as required.
- .4 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. The use of gas-fired appliances is not permitted.
- .5 Perform no painting work unless a minimum lighting level of 323 Lux is provided on surfaces to be painted. Adequate lighting facilities shall be provided by General Contractor.
- .2 Temperature, Humidity and Substrate Moisture Content Levels:
 - .1 Unless specifically pre-approved by specifying body, Paint Inspection Agency and, applied product manufacturer, perform no repainting 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 Relative humidity within area to be repainted is above 85%.
 - .2 Conduct moisture tests using a properly calibrated electronic Moisture Meter, except use a simple "cover patch test" on concrete floors to be repainted.
 - .3 Perform no painting work when maximum moisture content of substrate exceeds: .1 12% for concrete, plaster and gypsum board.
 - .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 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 noted herein.
 - .3 Apply paint when previous coat of paint is dry or adequately cured, unless otherwise pre-approved by the specific coating manufacturer.

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- .4 Schedule operations to approval of the Departmental Representative such that painted surfaces will have dried and cured sufficiently before occupants are affected.
- 1.11 WASTE MANAGEMENT AND DISPOSAL
- .1 Separate and recycle waste materials in accordance with Section 01 74 19 -Construction/Demolition Waste Management and Disposal.
- .2 Paint, stain and wood preservative finishes and related materials (thinners, solvents, etc.) are 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.
- .3 Materials that cannot be reused must be treated as hazardous waste and disposed of in an appropriate manner.
- .4 Place materials defined as hazardous or toxic waste, including used sealant and adhesive tubes and containers, in containers or areas designated for hazardous waste.
- .5 To reduce the amount of contaminants entering waterways, sanitary/storm drain systems or into the ground the following procedures shall be strictly adhered to:
- .1 Retain cleaning water for water-based materials to allow sediments to be filtered out. In no case shall equipment be cleaned using free draining water.
- .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).
- .6 Close and seal tightly partly used cans of materials including sealant and adhesive containers and store protected in well ventilated fire-safe area at moderate temperature.
- .6 Where paint recycling is available, collect waste materials by type and provide for delivery to recycling or collection facility.

- 1.12 EXTRA MATERIALS
- .1 Submit maintenance materials in accordance with Section 01 78 00 - Closeout Submittals.
 - .2 Submit one one litre can of each type and colour of finish coating. Identify type and colour in relation to established colour schedule and finish system.
 - .3 Deliver to Contractor and store where directed.

PART 2 - PRODUCTS

- 2.1 MATERIALS
- .1 Paint materials listed in the latest edition of the MPI Approved Product List (APL) are acceptable for use on this project.
 - .2 Paint materials for repaint systems shall be products of a single manufacturer. Preference that paints manufactured by "Sico" shall be used where possible since the Institution has standardized on product from this manufacturer.
 - .3 Only qualified products with MPI "Environmentally Friendly" E2 rating are acceptable for use on this project.
 - .4 Paints, coatings, thinners, solvents, cleaners and other fluids used in repainting, shall:
 - .1 Not contain methylene chloride, chlorinated hydrocarbons, toxic metal pigments.
 - .2 Be manufactured without compounds which contribute to ozone depletion in the upper atmosphere.
 - .3 Be manufactured without compounds which contribute to smog in the lower atmosphere.
 - .4 Be manufactured in a manner where matter generating a 'Biochemical Oxygen Demand' (BOD) in undiluted production plant effluent discharged to a natural watercourse or a sewage treatment facility lacking secondary treatment does not exceed 15 mg/L.
 - .5 Be manufactured in a manner where the total suspended solids (TSS) content in undiluted production plant effluent discharged to a natural watercourse or a sewage treatment facility lacking secondary treatment does not exceed 15 mg/L.
 - .5 Paints and coatings must be manufactured and transported in a manner that steps of processes, including disposal of waste products arising therefore, will meet requirements of applicable governmental acts, by-laws and regulations including, for facilities located in Canada, Fisheries Act and Canadian Environmental Protection Act (CEPA).

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- 2.2 COLOURS
- .6 Paints and coatings must not be formulated or manufactured with formaldehyde, halogenated solvents, mercury, lead, cadmium, hexavalent chromium or their compounds.
 - .1 Departmental Representative will provide Colour Schedule after Contract award.
 - .2 Colour schedule will be based upon selection of colours that match colours used in the areas where work is to be conducted.
 - .3 Where specific products are available in a restricted range of colours, selection will be based on the limited range.
 - .4 First coat in a two coat (Premium) paint system to be tinted slightly lighter colour than top coat to show visible difference between coats.
- 2.3 MIXING AND TINTING
- .1 Perform colour tinting operations prior to delivery of paint to site. On-site tinting of painting materials is allowed with Departmental Representative written permission.
 - .2 Paste, powder or catalyzed paint mixes shall be mixed in strict accordance with manufacturer's written instructions.
 - .3 Where thinner is used, addition shall not exceed paint manufacturer's recommendations. Do not use kerosene or such organic solvents to thin water-based paints.
 - .4 Thin paint for spraying according in strict accordance with paint manufacturer' instructions. If directions are not on container, obtain instructions in writing from manufacturer and provide copy of instructions to Consultant Engineer Project Manager.
 - .5 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.
- 2.4 GLOSS/SHEEN RATINGS
- .1 Paint gloss shall be defined as the sheen rating of applied paint, in accordance with the following MPI gloss / sheen standard values:

Gloss Level Category	Units @ 60°	Units @ 85°
G1 - matte	0 to 5	maximum 10
G2 - velvet finish	0 to 10	10 to 35
G3 - eggshell finish	10 to 25	10 to 35
G4 - satin finish	20 to 35	minimum 35
G5 – 3	5 to 70	

- semi-gloss
finish
G6 - gloss 70 to 85
finish
G7 - high > 85
gloss finish
finish
- .2 Gloss level ratings of repainted surfaces. shall match existing painted surfaces in the area.
- .3 INT 5.1 - Metal Fabrications - Desks & book cases, beds.
.1 High Performance Architectural Latex G3.
(1 coat full prime coat MPI # 134 and 2 coats MPI # 139 - egg shell).
- .4 INT 5.3M - Galvanized Metal: (High Contact/High Traffic Areas (Doors, Frames, etc.).
.1 High Performance Architectural Latex G5.
(1 coat full prime coat MPI # 134 and 2 coats MPI # 141 - semigloss).
- .5 INT 9.2B - Plaster: (Ceilings).
.1 High Performance Architectural Latex G1.
(Ceilings - 1 full prime coat MPI # 50 and 2 coats MPI # 138 -flat).
- .6 INT 9.2B - Plaster: (Walls).
.1 High Performance Architectural Latex G4.
(1 full prime coat MPI # 50 and 2 coats MPI # 140 - satin like).

PART 3 - EXECUTION

3.1 GENERAL

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

3.2 EXISTING CONDITIONS

- .1 Prior to commencing work, thoroughly examine site conditions and existing interior substrates to be painted. Report in writing to Departmental Representative and General Contractor damages, defects, or unsatisfactory or unfavorable conditions or surfaces that will adversely affect this work.
- .2 Conduct moisture testing of surfaces to be painted using a properly calibrated electronic moisture meter, except test concrete floors for moisture using a simple "cover patch test" and report findings to Departmental Representative and General Contractor. Maximum moisture content shall not exceed limits specified herein.

- .3 No painting work shall commence until such adverse conditions and defects have been corrected and surfaces and conditions are acceptable to the Painting Subcontractor and Inspection Agency. Commencement of work shall not be held to imply acceptance of surfaces except as qualified herein.
- .4 Degree of surface deterioration (DSD) shall be assessed using MPI Identifiers and Assessment criteria indicated in the MPI Painting Manual. MPI DSD ratings and descriptions are as follows:
Condition Description
DSD-0 Sound Surface (includes visual (aesthetic) defects that do not affect film's protective properties).
DSD-1 Slightly Deteriorated Surface (indicating fading; gloss reduction, slight surface contamination, minor pin holes scratches, etc.).
DSD-2 Moderately Deteriorated Surface (small areas of peeling, flaking, slight cracking, staining, etc.).
DSD-3 Severely Deteriorated Surface (heavy peeling, flaking, cracking, checking, scratches, scuffs, abrasion, small holes and gouges).
DSD-4 Substrate Damage (repair or replacement of surface required by others).

3.3 PROTECTION

- .1 Protect existing surfaces and adjacent fixtures and furnishings from paint spatters, markings and other damage by suitable non-staining covers or masking. If damaged, clean and restore such 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 general public and building occupants in and about the building.
- .5 Removal of electrical cover plates, light fixtures, surface hardware on doors, and surface mounted equipment, fittings and fastenings shall be done prior to undertaking re-painting operations by General Contractor. Items shall be securely stored and re-installed by General Contractor after painting is completed.
- .6 As painting operations progress, place "WET PAINT" signs in occupied areas to approval of Departmental Representative

3.4 CLEANING AND
PREPARATION

- .1 Clean and prepare interior surfaces to be painted in accordance with MPI Maintenance Painting Manual requirements. Refer to MPI Manual in regard to specific requirements and as follows:
 - .1 Remove dust, dirt, and surface debris by vacuuming, wiping with dry, clean cloths.
 - .2 Wash surfaces with a biodegradable detergent (TSP) and bleach where applicable and clean warm water using a stiff bristle brush to remove dirt, oil and surface contaminants.
 - .3 Rinse scrubbed surfaces with clean water until foreign matter is flushed from surface.
 - .4 Allow surfaces to drain completely and to dry thoroughly. Allow sufficient drying time and test surfaces using an electronic moisture meter before commencing work.
 - .5 Use water-based cleaners in place of organic solvents where surfaces will be repainted using water based paints.
 - .6 Many water-based paints cannot be removed with water once dried. Minimize the use of organic solvents to clean up water-based paints.
- .2 Clean metal surfaces to be repainted by removing rust, dirt, oil, grease and foreign substances in accordance with MPI requirements. Remove such contaminants from surfaces, pockets and corners to be repainted by brushing with clean brushes, blowing with clean dry compressed air, or brushing/vacuum cleaning as required.
- .3 Prevent contamination of cleaned surfaces by alts, acids, alkalis, other corrosive chemicals, grease, oil and solvents before priming and between applications of remaining coats. Touch-up, spot prime, and apply primer, paint, or pre-treatment as soon as possible after cleaning and before deterioration occurs.
- .4 Do not apply paint until prepared surfaces have been accepted by Departmental Representative.
- .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.

3.5 APPLICATION

- .1 Apply paint by method that is best suited for substrate being repainted using brush roller. Conform to manufacturer's application instructions unless specified otherwise. Methods of application shall be as pre-approved by Departmental Representative before commencing the work.

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- .2 Brush and Roller Application:
 - .1 Apply paint in a uniform layer using brush and/or roller of types suitable for application.
 - .2 Work paint into cracks, crevices and corners.
 - .3 Paint surfaces and corners not accessible to brush using spray, daubers and/or sheepskins. Paint surfaces and corners not accessible to roller using brush, daubers or sheepskins.
 - .4 Brush and/or roll out runs and sags, and over-lap marks. Rolled surfaces shall be free of roller tracking and heavy stipple unless approved by Departmental Representative.
 - .5 Remove runs, sags and brush marks from finished work and repaint.
 - .3 Use dipping, sheepskins or daubers when no other method is practical in places of difficult access and when specifically authorized by Departmental Representative.
 - .4 Apply paint coats in a continuous manner and allow surfaces to dry and properly cure between coats for minimum time period as recommended by manufacturer. Minimum dry film thickness of coats shall not be less than that recommended by the manufacturer. Repaint thin spots or bare areas before next coat of paint is applied.
 - .5 Sand and dust between coats to remove visible defects.
 - .6 Repaint surfaces both above and below sight lines as specified for surrounding surfaces, including such surfaces as tops of interior cupboards and cabinets and projecting ledges.
 - .7 Paint top, bottom, and vertical edges of doors to be painted or repainted.
- 3.6 FIELD QUALITY CONTROL
- .1 Advise Departmental Representative when each surface and applied coating is ready for inspection. Do not proceed with subsequent coats until previous coat has been approved.
- 3.7 CLEAN-UP
- .1 Remove paint where spilled, splashed, splattered or sprayed as work progresses using means and materials that are not detrimental to affected surfaces.
 - .2 Keep work area free from an unnecessary accumulation of tools, equipment, surplus materials and debris.
 - .3 Remove combustible rubbish materials and empty paint cans each day and safely dispose of same in accordance with requirements of authorities having jurisdiction.
 - .4 Clean equipment and dispose of wash water used for water borne materials, solvents used for oil based

materials as well as other cleaning and protective materials (e.g. rags, drop cloths, masking papers, etc.), paints, thinners, paint removers/strippers in accordance with the safety requirements of authorities having jurisdiction and as noted herein.

- .5 Painting equipment shall be cleaned in leak-proof containers that will permit particulate matter to settle out and be collected. Sediment remaining from cleaning operations shall be recycled or disposed of in a manner acceptable to authorities having jurisdiction.
- .6 Paint and coatings in excess of repainting requirements shall be recycled as noted herein.

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 affected exposed surfaces. 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