1.1 **GENERAL**

1.2 **Related SFU Technical Requirements**

1.3 **Co-ordination Requirements**

1.4 **Description**

1.5 **Performance Standards**

1.6 **Quality Control and Assurance**

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1.2 Related SFU Technical Requirements

.1 [Section 09 00 10 Finishes – General Requirements](#)
.2 [Section 27 05 00 Common Work Results](#)
.3 [Section 27 11 00 Telecommunications Room Fittings](#)

1.3 Co-ordination Requirements

.1 Coordinate with Consultants - Structural, Mechanical, Electrical and/or Landscape.
.2 Coordinate with SFU Facilities and SFU Project Manager
.3 Coordinate with the Architect
.4 For Mechanical Room Floor Coatings, refer to [Section 09 67 00 Fluid Applied Flooring](#).
.5 SFU IT Services

1.4 Description

.1 Exterior and Interior Painting.

1.5 Performance Standards

.1 Master Painters Institute (MPI) published Manuals as follows:

   .2 Existing surfaces shall use MPI Maintenance Repainting Manual.

1.6 Quality Control and Assurance

.1 Submittals

   .1 Before Start of Work
      .1 List of all proposed paint materials for review; color samples for selection; color
         samples for final approval.
      .2 MSDS Material Data Sheets for review and posting at jobsite.
      .3 Certification reports for Eco-Logo and VOC content.

   .2 During Work
      .1 Use MPI Accredited Assurance Association (A.Q.A.) inspector reports, or
         preferably MPI inspector.
      .2 Manufacturer Inspectors' reports when required.

   .3 At Completion
      .1 Maintenance data: itemized list c/w manufacturer/distributor name, paint type,
         color formulation.

      .2 Maintenance material shall be minimum four (4) unopened 1 liter cans of each
         product/color, labeled including Project Name and Number, to be handed over
         to SFU Facilities at Project site, for storage within the Project site (i.e.
         designated Janitor Room).

.2 Quality Assurance

   .1 Trade Contractor shall be a member of master painters and decorators association
      (MPDA). Refer to [www.paintinfo.com](#).

   .2 Follow MPI Quality Assurance Program including the MPDA Inspection and
      Guarantee Program.
3 Quality Control
.1 All work to be inspected by an MPI approved/appointed Inspection Agency, acceptable to the Consultant and the MPI Accredited Assurance Association (A.Q.A.), and paid by the Trade Contractor; MPI Inspection to be carried out irrespective of type of Guarantee.

.2 When "special" non-MPI products or systems are to be used, the manufacturer to also carry out inspections and certify the work, following the same procedures as set out in the MPI Manual, and paid by the Trade Contractor.

.3 Inspection to include inspection of surfaces prior to start of work, moisture tests, preparation for painting, primer, completed work, and during and at end of Warranty including expediting correction of defects.

4 Warranties
.1 2-Year MPI Accredited Quality Assurance Association's 2-year guarantee, or a 100% 2-Year maintenance bond issued by a surety licensed in British Columbia warranting also that painting work has been performed to MPI Manual requirements. The A.Q.A. association's guarantee shall NOT exclude any of the work carried out under this section.

2.1 MATERIALS
2.2 Performance Requirements

.1 General

.1 Use products that are listed in MPI Manual Current Approved Product List.

.2 Material such as linseed oil, shellac, turpentine, etc. not specifically listed by brand name shall use highest quality product.

.3 All products for each paint system applied shall be from same manufacturer for compatibility.

.4 Primers on steelwork shall provide MPI approved primers suitable for paint systems noted, and suitable for subsequent work carried out by this Section. Coordinate with Section 05 00 00 Metals and Section 05 50 00 Metal Fabrications.

.5 All paint systems shall be MPI "premium grade" except as noted.

.2 Environmental

.1 Source

.1 Preference shall be ISO 9001 2008 registered manufacturers.

http://www.praxiom.com/iso-9001.htm

.2 Manufacture

.1 Select lowest range VOC products from each MPI product category number listed in the MPI Manual current approved product list, preferably “Three-Tree” and Eco-Logo certified.

.3 Performance

.1 Durability

.1 Minimize tinting to maintain durability.

.2 Life Cycle Costing

.1 Exterior expectancy shall be minimum 8 years using standard coatings. Expectancy for High Performance Coatings shall be a minimum 15 years,
and whenever possible financially, contractors are to use high performance coatings. Approximately 60-year for silicate-based paints, especially on cementitious-finished heritage buildings.

.2 Interior expectancy is 5-10 years.

.3 Disposal
   .1 Refer Section 01 74 19 Construction Waste Management and Disposal.

2.3 Prescriptive Requirements

.1 Materials
   .1 Use MPI approved products except where noted.
   .2 Use paint with reduced volatile and preservative content formulated for minimum VOC emissions, especially where rooms are continuously occupied.
   .3 Paint shall not contain mercury, lead, hexavalent chromium, or cadmium compounds.
   .4 Use alkyd paints only at high impact areas, or with special approval. (See note .6 next).
   .5 Do not use water-soluble paints for handrails, or door frames where hand oils could cause paint breakdown.
   .6 Preference should be given to alkyd paints in renovation work and for painting handrails, doors, door frames and window frames because of durability and life cycle cost. Being more durable, less VOC’s are released over time than water based paints which must be renewed more often. Do not use water based paints on handrails etc. where hand oils will break down the paint.
   .7 Mechanical, Electrical, and similar Service Rooms or enclosed spaces, and concealed spaces: Services in these area, including equipment, piping, pipe insulation, coils, ductwork, conduit, electrical and control panels, access panels, etc. are NOT to be painted, except for pre-finishing carried out by manufacturers and any make-good work.
   .8 For Mechanical Room floors over occupied spaces see Section 09 67 00 Fluid Applied Flooring.

.2 Paint Systems, Components, Sheen, and Use

   .1 Exterior New Work
      .1 EXT 5.1B / Inorganic Zinc Primer + High Performance Acrylic / Gloss / Exposed Structural Steel.
      .2 EXT 5.1D / Alkyd / Gloss / Miscellaneous Metal including railings, guardrails, bollards.
      .3 EXT 5.1G / Zinc Rich Primer + 2-Component Aliphatic Polyurethane / shop finished exposed structural steel; detailing of steelwork carefully coordinated to minimize fieldwork touch-up.
      .4 EXT 5.3B / Alkyd / Gloss / galvanized hollow metal doors and pressed steel frames; roof-top ducting, vents and piping, exterior galvanized metal generally.
.5 Strong consideration should be given to using Potassium Silicate-based paints on cementitious surfaces. Contact the Architect, Technical Services; phone: 604-822-9510. Silicate-based paints must be completely unaffected by UV, static dirt-repelling, completely breathable, inorganic/sustainable, must bond chemically with the cementitious substrate and have a life-expectancy of more than 60 years.

.2 Exterior Renovation Work

.1 REX 5.1K or L / Water Based Light Industrial Coating / semi-gloss / painted doors and frames.

.2 Strong consideration should be given to using Potassium Silicate-based paints on cementitious surfaces. Contact the Architect, Technical Services; phone: 604-822-9510. Silicate-based paints must be completely unaffected by UV, static dirt-repelling, completely breathable, inorganic/sustainable, must bond chemically with the cementitious substrate and have a life-expectancy of more than 60 years.

.3 Interior New Work

.1 INT 3.1A / Latex / Custom / Eggshell / Mechanical, Electrical Rooms, and Service Rooms.

.2 INT 3.1C / High Performance Acrylic / Eggshell / typical concrete surfaces.

.3 INT 3.1D / Alkyd / semi-gloss / concrete in washroom, janitor, and similar rooms.

.4 INT 3.2H / Latex Zone & Traffic Markings / nosing at stairs, conforming to BC Building Code for the visually impaired; other safety markings required by BC Building Code, authorities having jurisdiction, Worksafe.

.5 INT 4.2A / Latex / Custom / Eggshell / Mechanical, Electrical rooms, and service rooms.

.6 INT 4.2K / High Performance Acrylic / Eggshell / typical concrete block surfaces.

.7 INT 4.2C / Alkyd / semi-gloss / concrete block in washroom, janitor and similar rooms.

.8 INT 5.1B / High Performance Acrylic / Gloss / Structural Steel.

.9 INT 5.1E / Alkyd / Gloss / Metal Fabrications at contact surfaces such as stairs, railings, trench gratings, trench covers and frames, access doors/panels, elevator doors and frames.

.10 INT 5.3C / Alkyd / Gloss / galvanized hollow metal doors, door and window frames; galvanized metal fabrications.

.11 INT 5.3F / Alkyd Dryfall / flat / steel deck.

.12 INT 6.4C / Alkyd / Gloss / wood trim.

.13 INT 9.2A / Latex / Custom Grade / Eggshell / gypsum board in Mechanical, Electrical Rooms, and service rooms.


.15 INT 9.2C / Alkyd / semi-gloss / gypsum board in washroom, janitor and similar rooms.

.4 Interior Renovation Work
.1 RIN 5.3B / Water Based Light Industrial Coating / semi-gloss / painted hollow metal doors and pressed steel frames.

.2 RIN 6.3P / Water Based Light Industrial Coating / semi-gloss / painted wood doors and frames.

.3 Colour Finishes

.1 Exterior New Work
.1 The colors should preferably adhere to SFU colours.

.2 Suggested interior corridor colours are as shown in a silver General Paints booklet titled “Neutral Colours”.

.4 Metal Fabrications at or near ground level.

.1 GP-3979A is mandatory for all exterior metal fabrications on campus, such as handrails, stairs, railings, and light standards and other similar fittings and components on the Site. General Paint has no problem mixing this color’s older ref. number when specified:

.5 Electrical panels, fire hose cabinets, access panels: match color of adjoining surfaces except as otherwise required by Building and/or Fire Codes.

.6 Fabrication
.1 Conform to MPI Manuals.

2.4 Execution

.1 Conform to MPI Manuals, including preparation for work of this Section.
.2 Contract MPI inspectors for quality control.
.3 Allow each coat to dry before applying the next coat, sanding between coats.
.4 Any resultant damage or results emanating from preparation for painting, including pressure washing and similar procedures, are the responsibility of the Contractor.

3.1 OTHER

.1 Cleaning
.1 Remove paint spots from both existing and new surfaces regardless of who caused them.

.2 Communications cables must not be painted. They must be masked and protected from paint overspray or direct painting.

.3 Wall-mounted plywood back-boards inside all Communications Rooms must be painted. See Section 27 05 00 Common Work Results and Section 27 11 00 Telecommunications Room Fittings.

***END OF SECTION***