



**SECTION 099113
EXTERIOR PAINTING WITH MPI**

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Site application of paints.
- C. Materials for back priming woodwork.
- D. Scope: Finish exterior surfaces exposed to view, unless fully factory-finished and unless otherwise indicated, including the following:
 - 1. Both sides and edges of plywood backboards for electrical and telecom equipment before installing equipment.
 - 2. Exposed surfaces of steel lintels and ledge angles.
 - 3. Exposed walls and bottom of swimming pools and fountains.
 - 4. Mechanical and Electrical:
 - a. On the roof and outdoors, paint equipment that is exposed to weather or to view, including factory-finished materials.
- E. Do Not Paint or Finish the Following Items:
 - 1. Items factory-finished unless otherwise indicated; materials and products having factory-applied primers are not considered factory-finished.
 - 2. Items indicated to receive other finishes.
 - 3. Items indicated to remain unfinished.
 - 4. Fire-rating labels, equipment serial number and capacity labels, and operating parts of equipment.
 - 5. Nonmetallic roofing and flashing.
 - 6. Stainless steel, anodized aluminum, bronze, terne coated stainless steel, zinc, and lead.
 - 7. Marble, granite, slate, and other natural stones.
 - 8. Floors, unless specifically indicated.
 - 9. Ceramic and other types of tiles.
 - 10. Brick, glass unit masonry, architectural concrete, cast stone, integrally coloured plaster and stucco.
 - 11. Exterior insulation and finish system (EIFS).
 - 12. Glass.
 - 13. Concrete masonry units in utility, mechanical, electrical, and [_____] spaces.
 - 14. Concealed pipes, ducts, and conduits.

1.02 RELATED REQUIREMENTS

- A. Section 016116 - Volatile Organic Compound (VOC) Content Restrictions.
- B. Section 055000 - Metal Fabrications: Shop-primed items.
- C. Section 055100 - Metal Stairs: Shop-primed items.
- D. Section 099123 - Interior Painting.
- E. Section 099600 - High-Performance Coatings.
- F. Section 099725 - Mineral-Based Coatings.
- G. Section 210553 - Identification for Fire Suppression Piping and Equipment: Painted identification.

- H. Section 210553 - Identification for Fire Suppression Piping and Equipment: Colour coding scheme for items to be painted under this section.
- I. Section 220553 - Identification for Plumbing Piping and Equipment: Painted identification.
- J. Section 220553 - Identification for Plumbing Piping and Equipment: Colour coding scheme for items to be painted under this section.
- K. Section 230553 - Identification for HVAC Piping and Equipment: Painted identification.
- L. Section 230553 - Identification for HVAC Piping and Equipment: Colour coding scheme for items to be painted under this section.
- M. Section 260553 - Identification for Electrical Systems: Painted identification.
- N. Section 260553 - Identification for Electrical Systems: Colour coding scheme for items to be painted under this section.
- O. Section 321723.13 - Painted Pavement Markings: Painted pavement markings.
- P. Section 331600 - Water Utility Storage Tanks: Painting inside and outside of tanks.

1.03 DEFINITIONS

- A. Comply with ASTM D16 for interpretation of terms used in this section.

1.04 REFERENCE STANDARDS

- A. ASTM D16 - Standard Terminology for Paint, Related Coatings, Materials, and Applications 2019.
- B. ASTM D4258 - Standard Practice for Surface Cleaning Concrete for Coating 2005 (Reapproved 2017).
- C. ASTM D4259 - Standard Practice for Preparation of Concrete by Abrasion Prior to Coating Application 2018.
- D. ASTM D4260 - Standard Practice for Liquid and Gelled Acid Etching of Concrete 2005 (Reapproved 2017).
- E. ASTM D4442 - Standard Test Methods for Direct Moisture Content Measurement of Wood and Wood-Based Materials 2020.
- F. CSA A23.1/A23.2 - Concrete Materials and Methods of Concrete Construction / Test Methods and Standard Practices for Concrete 2019.
- G. MPI (APL) - Master Painters Institute Approved Products List, Master Painters and Decorators Association Current Edition.
- H. MPI (APSM) - Master Painters Institute Architectural Painting Specification Manual Current Edition.
- I. SCAQMD 1113 - Architectural Coatings 1977 (Amended 2016).
- J. SSPC V1 (PM1) - Good Painting Practice: Painting Manual, Volume 1 2016.
- K. SSPC V2 (PM2) - Systems and Specifications: Steel Structures Painting Manual, Volume 2 2015.
- L. SSPC-SP 1 - Solvent Cleaning 2015, with Editorial Revision (2016).
- M. SSPC-SP 2 - Hand Tool Cleaning 1982, with Editorial Revision (2004).
- N. SSPC-SP 3 - Power Tool Cleaning 1982, with Editorial Revision (2004).
- O. SSPC-SP 6 - Commercial Blast Cleaning 2007.
- P. SSPC-SP 13 - Surface Preparation of Concrete 1997 (Reaffirmed 2003).

1.05 SUBMITTALS

- A. See Section 013000 - Administrative Requirements for submittal procedures.
- B. Product Data: Provide complete list of products to be used, with the following information for each:

1. Manufacturer's name, product name and/or catalog number, and general product category (e.g. "alkyd enamel").
 2. MPI product number (e.g. MPI #47).
 3. Cross-reference to specified paint system(s) product is to be used in; include description of each system.
 4. Manufacturer's installation instructions.
 5. If proposal of substitutions is allowed under submittal procedures, explanation of substitutions proposed.
- C. Samples: Submit three paper "draw down" samples, 216 by 279 mm in size, illustrating range of colours available for each finishing product specified.
1. Where sheen is specified, submit samples in only that sheen.
 2. Where sheen is not specified, submit each colour in each sheen available.
 3. Where sheen is not specified, discuss sheen options with consultant before preparing samples, to eliminate sheens not required.
 4. Allow 30 days for approval process, after receipt of complete samples by consultant.
 5. Paint colour submittals will not be considered until colour submittals for major materials not to be painted, such as masonry, have been approved.
- D. Samples: Submit two paper chip samples, ____x____ mm in size illustrating range of colours and textures available for each surface finishing product scheduled.
- E. Samples: Submit two painted samples, illustrating selected colours and textures for each colour and system selected with specified coats cascaded. Submit on aluminum sheet, ____x____ mm in size.
- F. Certification: By manufacturer that paints, and finishes comply with VOC limits specified.
- G. Manufacturer's Instructions: Indicate special surface preparation procedures.
- H. Maintenance Data: Submit data including finish schedule showing where each product/colour/finish was used, product technical data sheets, safety data sheets (SDS), care and cleaning instructions, touch-up procedures, repair of painted and finished surfaces, and colour samples of each colour and finish used.
- I. Maintenance Materials: Supply the following for Owner's use in maintenance of project.
1. See Section 016000 - Product Requirements for additional provisions.
 2. Extra Paint and Finish Materials: 4 L of each colour; from the same product run, store where directed.
 3. Label each container with colour in addition to the manufacturer's label.

1.06 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with minimum three years documented experience.
- B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum [_____] years' experience and approved by manufacturer.

1.07 MOCK-UP

- A. See Section 014000 - Quality Requirements for general requirements for mock-up.
- B. Provide panel, [_____] m long by [_____] m wide, illustrating paint colour, texture, and finish.
- C. Provide door and frame assembly illustrating paint colour, texture, and finish.
- D. Locate where directed by consultant.
- E. Mock-up may remain as part of the work.

1.08 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

- B. Container Label: Include manufacturer's name, type of paint, brand name, lot number, brand code, coverage, surface preparation, drying time, cleanup requirements, colour designation, and instructions for mixing and reducing.
- C. Paint Materials: Store at minimum ambient temperature of 7 degrees C and a maximum of 32 degrees C, in ventilated area, and as required by manufacturer's instructions.

1.09 SITE CONDITIONS

- A. Do not apply materials when surface and ambient temperatures are outside the temperature ranges required by the paint product manufacturer.
- B. Follow manufacturer's recommended procedures for producing best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.
- C. Do not apply exterior paint and finishes during rain or snow, or when relative humidity is outside the humidity ranges required by the paint product manufacturer.
- D. Minimum Application Temperature for Latex Paints: 10 degrees C for exterior, unless required otherwise by manufacturer's instructions.
- E. Provide lighting level of 860 lx measured mid-height at substrate surface.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Provide paints and finishes used in any individual system from the same manufacturer, no exceptions.
- B. Provide paints and finishes from the same manufacturer to the greatest extent possible.
 - 1. If a single manufacturer cannot provide specified products, minor exceptions will be permitted provided approval by consultant is obtained using the specified procedures for substitutions.
 - 2. Substitution of MPI-approved products by a different manufacturer is preferred over substitution of unapproved products by the same manufacturer.
 - 3. Substitution of other products by the same manufacturer is preferred over substitution of products by a different manufacturer.
 - 4. Substitution of a different paint system using MPI-approved products by the same manufacturer will be considered.
- C. Paints:
 - 1. Dulux Paints:
- D. Primer Sealers: Same manufacturer as topcoats.
- E. Substitutions: See Section 016000 - Product Requirements.

2.02 PAINTS AND FINISHES - GENERAL

- A. Paints and Finishes: Ready mixed, unless required to be a site-catalyzed paint.
 - 1. Where MPI paint numbers are specified, provide products listed in Master Painters Institute Approved Product List, current edition available at www.paintinfo.com, for specified MPI categories, except as otherwise indicated.
 - 2. Provide paints and finishes of a soft paste consistency, capable of being readily and uniformly dispersed to a homogeneous coating, with good flow and brushing properties, and capable of drying or curing free of streaks or sags.
 - 3. Provide materials that are compatible with one another, and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and site experience.
 - 4. For opaque finishes, tint each coat including primer coat and intermediate coats, one-half shade lighter than succeeding coat, with final finish coat as base colour.
 - 5. Supply each paint material in quantity required to complete entire project's work from a single production run.

6. Do not reduce, thin, or dilute paint or finishes or add materials unless such procedure is specifically described in manufacturer's product instructions.
- B. Volatile Organic Compound (VOC) Content: Comply with Section 016116.
 - C. Volatile Organic Compound (VOC) Content:
 1. Provide paints and finishes that comply with the most stringent requirements specified in the following:
 - a. Architectural coatings VOC limits of Province in which the project is located.
 - D. Flammability: Comply with applicable code for surface burning characteristics.
 - E. Sheens: Provide the sheens specified; where sheen is not specified, sheen will be selected later by consultant from the manufacturer's full line.
 - F. Colours: As indicated in Colour Schedule.
 1. Selection to be made by consultant after award of contract.
 2. Allow for minimum of three colours for each system, unless otherwise indicated, without additional cost to Owner.
 3. Extend colours to surface edges; colours may change at any edge as directed by consultant.

2.03 PAINT SYSTEMS - EXTERIOR

- A. EXT 3.1A - Latex over Water-Based Alkali Resistant Primer.
 1. Gloss Level: G1-Matte or Flat (MPI 10), G2-Velvet (MPI 214), G3-Eggshell (MPI 15), G4-Satin (MPI 15), G5-Semi-Gloss (MPI 11), and G6-Gloss (MPI 119).
 2. Primer: MPI 3.
 3. Products:
 - a. Dulux Gripper Universal Acrylic Primer-Sealer 60000A (MPI 3):
 - b. Dulux Diamond Exterior 100% Acrylic Paint 16330, Flat (MPI 10):
 - c. Dulux Diamond Exterior 100% Acrylic Paint 16430, Satin (MPI 214):
 - d. Dulux Diamond Exterior 100% Acrylic Paint 16520, Semi-Gloss (MPI 11):
 - e. Dulux Weatherguard Exterior 100% Acrylic 1530, Matte (MPI 10):
 - f. Dulux Weatherguard Exterior 100% Acrylic 1540, Satin (MPI 15):
 - g. Dulux Weatherguard Exterior 100% Acrylic 1550, Semi-Gloss (MPI 11):
 - h. Dulux Weatherguard Exterior 100% Acrylic 1560, Gloss:
- B. EXT 3.1B - Latex over Latex Aggregate.
 1. Gloss Level: G1-Matte or Flat (MPI 10), G2-Velvet (MPI 214), G3-Eggshell (MPI 15), G4-Satin (MPI 15), G5-Semi-Gloss (MPI 11), and G6-Gloss (MPI 119).
 2. Primer: MPI 42.
 3. Products:
 - a. PPG Perma-Crete 100% Acrylic Texture Coating 4-50C, Flat (MPI 42):
 - b. Dulux Diamond Exterior 100% Acrylic Paint 16330, Flat (MPI 10):
 - c. Dulux Diamond Exterior 100% Acrylic Paint 16430, Satin (MPI 214):
 - d. Dulux Diamond Exterior 100% Acrylic Paint 16520, Semi-Gloss (MPI 11):
 - e. Dulux Weatherguard Exterior 100% Acrylic 1530, Matte (MPI 10):
 - f. Dulux Weatherguard Exterior 100% Acrylic 1540, Satin (MPI 15):
 - g. Dulux Weatherguard Exterior 100% Acrylic 1550, Semi-Gloss (MPI 11):
 - h. Dulux Weatherguard Exterior 100% Acrylic 1560, Gloss:
- C. EXT 3.1C - Water-Based Light Industrial Coating over Water-Based Alkali Resistant Primer.
 1. Gloss Level: G3-Eggshell (MPI 161), G5-Semi-Gloss (MPI 163), and G6-Gloss (MPI 164).
 2. Primer: MPI 3.
 3. Products:
 - a. Dulux Gripper Universal Acrylic Primer-Sealer 60000A (MPI 3):
 - b. PPG Pitt-Tech Plus EP WB Acrylic DTM Enamel 90-1710, Satin (MPI 161):
 - c. PPG Pitt-Tech Plus EP WB Acrylic DTM Enamel 90-1610, Semi-Gloss (MPI 163):

- d. PPG Pitt-Tech Plus EP WB Acrylic DTM Enamel 90-1510, Gloss (MPI 164):
- D. EXT 3.1F - Elastomeric.
 - 1. Dry-Film Thickness: Minimum 0.41 mm.
 - 2. Gloss Level: Flat (MPI 113) and Non-Flat (MPI 38).
 - 3. Products:
 - a. PPG Perma-Crete Pitt-Flex Elastomeric Patching Compound Smooth 4-1000C (MPI 113):
- E. EXT 3.3H - High-Build Latex.
 - 1. Dry-Film Thickness: Minimum 0.25 mm.
 - 2. Products:
 - a. PPG Perma-Crete High Build 100% Acrylic Topcoat 4-22XIC, Flat:
- F. EXT 4.2A - Latex over Latex Block Filler.
 - 1. Gloss Level: G1-Matte or Flat (MPI 10), G2-Velvet (MPI 214), G3-Eggshell (MPI 15), G4-Satin (MPI 15), G5-Semi-Gloss (MPI 11), and G6-Gloss (MPI 119).
 - 2. Block Filler MPI 4: One coat, worked into concrete block pores.
 - 3. Products:
 - a. Dulux X-Pert Interior/Exterior Block Filler 36250 (MPI 4):
 - b. Dulux Diamond Exterior 100% Acrylic Paint 16330, Flat (MPI 10):
 - c. Dulux Diamond Exterior 100% Acrylic Paint 16430, Satin (MPI 214):
 - d. Dulux Diamond Exterior 100% Acrylic Paint 16520, Semi-Gloss (MPI 11):
 - e. Dulux Weatherguard Exterior 100% Acrylic 1530, Matte (MPI 10):
 - f. Dulux Weatherguard Exterior 100% Acrylic 1540, Satin (MPI 15):
 - g. Dulux Weatherguard Exterior 100% Acrylic 1550, Semi-Gloss (MPI 11):
 - h. Dulux Weatherguard Exterior 100% Acrylic 1560, Gloss:
- G. EXT 4.2C - Water-Based Light Industrial Coating over Latex Block Filler.
 - 1. Gloss Level: G3-Eggshell (MPI 161), G5-Semi-Gloss (MPI 163), and G6-Gloss (MPI 164).
 - 2. Block Filler MPI 4: One coat, worked into concrete block pores.
 - 3. Products:
 - a. Dulux X-Pert Interior/Exterior Block Filler 36250 (MPI 4):
 - b. PPG Pitt-Tech Plus EP WB Acrylic DTM Enamel 90-1710, Satin (MPI 161):
 - c. PPG Pitt-Tech Plus EP WB Acrylic DTM Enamel 90-1610, Semi-Gloss (MPI 163):
 - d. PPG Pitt-Tech Plus EP WB Acrylic DTM Enamel 90-1510, Gloss (MPI 164):
- H. EXT 4.2D - Elastomeric.
 - 1. Dry-Film Thickness: Minimum 0.41 mm.
 - 2. Products:
 - a. PPG Perma-Crete Pitt-Flex Elastomeric Patching Compound Smooth 4-1000C (MPI 113):
- I. EXT 5.3J - Water-Based Light Industrial Coating over Water-Based Galvanized Primer.
 - 1. Gloss Level: G3-Eggshell (MPI 161), G5-Semi-Gloss (MPI 163), and G6-Gloss (MPI 164).
 - 2. Primer: MPI 134.
 - 3. Products:
 - a. PPG Pitt-Tech Plus WB Acrylic DTM Primer 90-1912 (MPI 134):
 - b. PPG Pitt-Tech Plus EP WB Acrylic DTM Enamel 90-1710, Satin (MPI 161):
 - c. PPG Pitt-Tech Plus EP WB Acrylic DTM Enamel 90-1610, Semi-Gloss (MPI 163):
 - d. PPG Pitt-Tech Plus EP WB Acrylic DTM Enamel 90-1510, Gloss (MPI 164):
- J. EXT 6.2A - Latex over Alkyd/Oil Primer.
 - 1. Gloss Level: G1-Matte or Flat (MPI 10), G2-Velvet (MPI 214), G3-Eggshell (MPI 15), and G4-Satin (MPI 15).
 - 2. Primer: MPI 5. Spot prime as needed.
 - 3. Products:
 - a. Dulux Jammer 20000 Stain Blocking Alkyd Primer Interior/Exterior, 20000:

- b. Dulux Diamond Exterior 100% Acrylic Paint 16330, Flat (MPI 10):
 - c. Dulux Diamond Exterior 100% Acrylic Paint 16430, Satin (MPI 214):
 - d. Dulux Diamond Exterior 100% Acrylic Paint 16520, Semi-Gloss (MPI 11):
 - e. Dulux Weatherguard Exterior 100% Acrylic 1530, Matte (MPI 10):
 - f. Dulux Weatherguard Exterior 100% Acrylic 1540, Satin (MPI 15):
 - g. Dulux Weatherguard Exterior 100% Acrylic 1550, Semi-Gloss (MPI 11):
 - h. Dulux Weatherguard Exterior 100% Acrylic 1560, Gloss:
- K. EXT 6.3A - Latex over Alkyd/Oil Primer.
- 1. Gloss Level: G1-Matte or Flat (MPI 10), G2-Velvet (MPI 214), G3-Eggshell (MPI 15), G4-Satin (MPI 15), and G5-Semi-Gloss (MPI 11).
 - 2. Primer: MPI 5. Spot prime as needed.
 - 3. Products:
 - a. Dulux Jammer 20000 Stain Blocking Alkyd Primer Interior/Exterior, 20000:
 - b. Dulux Diamond Exterior 100% Acrylic Paint 16330, Flat (MPI 10):
 - c. Dulux Diamond Exterior 100% Acrylic Paint 16430, Satin (MPI 214):
 - d. Dulux Diamond Exterior 100% Acrylic Paint 16520, Semi-Gloss (MPI 11):
 - e. Dulux Weatherguard Exterior 100% Acrylic 1530, Matte (MPI 10):
 - f. Dulux Weatherguard Exterior 100% Acrylic 1540, Satin (MPI 15):
 - g. Dulux Weatherguard Exterior 100% Acrylic 1550, Semi-Gloss (MPI 11):
 - h. Dulux Weatherguard Exterior 100% Acrylic 1560, Gloss:
- L. EXT 6.3J - Water-Based Light Industrial Coating over Alkyd/Oil Primer.
- 1. Gloss Level: G3-Eggshell (MPI 161), G5-Semi-Gloss (MPI 163), and G6-Gloss (MPI 164).
 - 2. Primer: MPI 5. Spot prime as needed.
 - 3. Products:
 - a. Dulux Jammer 20000 Stain Blocking Alkyd Primer Interior/Exterior, 20000:
 - b. PPG Pitt-Tech Plus EP WB Acrylic DTM Enamel 90-1710, Satin (MPI 161):
 - c. PPG Pitt-Tech Plus EP WB Acrylic DTM Enamel 90-1610, Semi-Gloss (MPI 163):
 - d. PPG Pitt-Tech Plus EP WB Acrylic DTM Enamel 90-1510, Gloss (MPI 164):

2.04 ACCESSORY MATERIALS

- A. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.
- B. Patching Material: Latex filler.
- C. Fastener Head Cover Material: Latex filler.

PART 3 EXECUTION

3.01 EXAMINATION

- A. Do not begin application of paints and finishes until substrates have been properly prepared.
- B. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- C. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially affect proper application.
- D. If substrate preparation is the responsibility of another installer, notify Consultant of unsatisfactory preparation before proceeding.
- E. Test shop-applied primer for compatibility with subsequent cover materials.
- F. Measure moisture content of surfaces using an electronic moisture meter. Do not apply finishes unless moisture content of surfaces is below the following maximums:
 - 1. Exterior Plaster and Stucco: 12 percent.
 - 2. Fibre Cement Siding: 12 percent.
 - 3. Masonry, Concrete, and Concrete Masonry Units: 12 percent.
 - 4. Exterior Wood: 15 percent maximum, measured in accordance with ASTM D4442.
 - 5. Concrete Floors and Traffic Surfaces: 8 percent.

3.02 PREPARATION

- A. Clean surfaces thoroughly and correct defects prior to application.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- C. Remove or repair existing paints or finishes that exhibit surface defects.
- D. Remove or mask surface appurtenances, including electrical plates, hardware, light fixture trim, escutcheons, and fittings, prior to preparing surfaces for finishing.
- E. Seal surfaces that might cause bleed through or staining of topcoat.
- F. Remove mildew from impervious surfaces by scrubbing with solution of tetra-sodium phosphate and bleach. Rinse with clean water and allow surface to dry.
- G. Concrete:
 - 1. Remove release agents, curing compounds, efflorescence, and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
 - 2. Clean surfaces with pressurized water. Use pressure range of 10,350 to 27,580 kPa at 150 to 300 mm. Allow to dry.
 - 3. Clean concrete according to ASTM D4258. Allow to dry.
 - 4. Prepare surface as recommended by topcoat manufacturer and according to SSPC-SP 13.
- H. Masonry:
 - 1. Remove efflorescence and chalk. Do not coat surfaces if moisture content or alkalinity of surfaces or if alkalinity of mortar joints exceed that permitted in manufacturer's written instructions. Allow to dry.
 - 2. Prepare surface as recommended by topcoat manufacturer.
 - 3. Clean surfaces with pressurized water. Use pressure range of 4,140 to 10,350 kPa at 150 to 300 mm. Allow to dry.
- I. Fibre Cement Siding: Remove dirt, dust, and other foreign matter with a stiff fibre brush. Do not coat surfaces if moisture content or alkalinity of surfaces to be coated exceeds that permitted in manufacturer's written instructions.
- J. Exterior Gypsum Board: Fill minor defects with exterior filler compound. Spot prime defects after repair.
- K. Exterior Plaster: Fill hairline cracks, small holes, and imperfections with exterior patching plaster. Make smooth and flush with adjacent surfaces. Wash and neutralize high alkali surfaces.
- L. Asphalt, Creosote, or Bituminous Surfaces: Remove foreign particles to permit adhesion of finishing materials. Apply latex based sealer or primer.
- M. Insulated Coverings: Remove dirt, grease, and oil from canvas and cotton.
- N. Concrete Floors and Traffic Surfaces: Prepare concrete floors to CSA A23.1/A23.2 Remove contamination, acid etch, and rinse floors with clear water. Verify required acid-alkali balance is achieved. Allow to dry.
- O. Aluminum: Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
- P. Copper: Remove contamination by steam, high pressure water, or solvent washing.
- Q. Galvanized Surfaces:
 - 1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
 - 2. Prepare surface according to SSPC-SP 2.
- R. Ferrous Metal:
 - 1. Solvent clean according to SSPC-SP 1.

2. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Clean surfaces with solvent. Prime bare steel surfaces. Re-prime entire shop-primed item.
3. Remove rust, loose mill scale, and other foreign substances using methods recommended in writing by paint manufacturer and blast cleaning according to SSPC-SP 6 "Commercial Blast Cleaning". Protect from corrosion until coated.
- S. Exterior Wood Surfaces to Receive Opaque Finish: Remove dust, grit, and foreign matter. Seal knots, pitch streaks, and sappy sections. Fill nail holes with tinted exterior caulking compound after prime coat has been applied. Back prime concealed surfaces before installation.
- T. Glue-Laminated Beams: Prior to finishing, wash surfaces with solvent, remove grease and dirt.
- U. Wood Doors to be Site-Finished: Seal wood door top and bottom edge surfaces with tinted primer.
- V. Metal Doors to be Painted: Prime metal door top and bottom edge surfaces.

3.03 APPLICATION

- A. Remove unfinished louvres, grilles, covers, and access panels on mechanical and electrical components and paint separately.
- B. Exterior Wood to Receive Opaque Finish: If final painting must be delayed more than 2 weeks after installation of woodwork, apply primer within 2 weeks and final coating within 4 weeks.
- C. Apply products in accordance with manufacturer's written instructions and recommendations in "MPI Architectural Painting Specification Manual".
- D. Where adjacent sealant is to be painted, do not apply finish coats until sealant is applied.
- E. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before next coat is applied.
- F. Apply each coat to uniform appearance.
- G. Dark Colours: Regardless of number of coats specified, apply additional coats until complete hide is achieved.
- H. Sand wood and metal surfaces lightly between coats to achieve required finish.
- I. Vacuum clean surfaces of loose particles. Use tack cloth to remove dust and particles just prior to applying next coat.
- J. Reinstall electrical cover plates, hardware, light fixture trim, escutcheons, and fittings removed prior to finishing.

3.04 SITE QUALITY CONTROL

- A. See Section 014000 - Quality Requirements for general requirements for site inspection.
- B. Owner will provide site inspection.
- C. Inspect and test questionable coated areas in accordance with [_____].

3.05 CLEANING

- A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

3.06 PROTECTION

- A. Protect finishes until completion of project.
- B. Touch-up damaged finishes after Substantial Performance.

END OF SECTION