Part 1 GENERAL

0.1 GENERAL REQUIREMENTS

1. Conform to Sections of Division 1 as applicable.

0.2 RELATED WORK

1. Shop priming of structural steel and joists: Section 05 12 00, Structural Steel and Steel Joists (Refer to Structural Drawings).

2. Shop priming of miscellaneous metal work: Section 05 99 00, Miscellaneous Metals.

3. Wood preservative or fire-retardant treatment for rough carpentry: Section 06 10 00, Rough Carpentry or Section 06 41 00, Carpentry and Millwork.

4. Shop priming of steel doors, frames and screens: Section 08 11 00, Steel Door and Frames.

5. Colour code banding, flow identification and lettering of mechanical work: Sections 20 - 23, General Mechanical Requirements (Refer to Mechanical Drawings).

6. For instructions on painting mechanical and electrical work: Section 20 04 00 General Mechanical Requirements and Section 26 05 00, General Electrical Requirements respectively.

7. Prime and finish coats applied by other Sections. Read carefully other Sections of Specifications to determine extent thereof.

8. Specification sections: 06 46 29 Cedar Soffits Fascia and Siding, 08 03 50 20 Conservation of Wood Windows, 08 03 50 30 Wood Epoxy Consolidation, 08 03 50 31 Wood Epoxy Patching, 08 14 00 Wood Doors, 08 14 33 Heritage Style Wood Doors, 08 52 69 Wood Storm Windows, 09 03 60 10 Refinishing Heritage Wood Flooring, 09 29 00 Gypsum Board Systems.

0.3 REFERENCES

Paints conforming to Standards in **BOLD** also conform to ECP-07/ECP-12.

ASTM D523-89	-	Test Method for Specular Gloss
CAN/CGSB-1.2-M89	-	Boiled Linseed Oil
CAN/CGSB-1.4-92	-	Petroleum Spirits Thinner
CAN/CGSB-1.5-M91	-	Low Flash Petroleum Spirits Thinner
CAN/CGSB-1.28-M89	-	Alkyd, Exterior House Paint
CAN/CGSB-1.40-M89	-	Primer, Structural Steel, Oil Alkyd Type
CAN/CGSB-1.57-M90	-	Alkyd, Interior, Semigloss Enamel
CAN/CGSB-1.59-M89	-	Alkyd, Exterior Gloss Enamel
CAN/CGSB-1.68-M91	-	Solvent Type Primer-Sealer for Interior Wall
CGSB 1-GP-74M	-	Paint, Traffic, Alkyd
CAN/CGSB-1.76-M91	-	Interior and Exterior Heat Resistant Enamel
CAN/CGSB-1.81-M90	-	Air Drying and Baking Alkyd Primer for Vehicles and

		Equipment
CAN/CGSB-1.100-M89	**-**	**Interior Latex Type, Flat Paint**
CAN/CGSB-1.119-M89	**-**	**Primer-Sealer, Wall, Interior Latex Type**
CAN/CGSB-1.135-M91	-	Flat Alkyd Enamel for Equipment
CAN/CGSB-1.138-93	**-**	**Exterior Latex Type Flat Paint**
CAN/CGSB-1.143-M90	-	Heat Resistant Aluminum Enamel, Silicone Alkyd
CAN/CGSB-1.154-M89	**-**	**Latex Type Paint for Concrete Floors**
CAN/CGSB-1.162-M90	-	Stucco and Masonry Coating, Emulsion Type
CAN/CGSB-1.175-M89	-	Polyurethane Interior Coating, Oil Modified, Clear, Gloss and Satin
CGSB 1-GP-180Ma	-	Coating, Polyurethane, Two-Package, Resistant to Chalking and Yellowing
CAN/CGSB-1.181-92	-	Ready Mixed Organic Zinc-Rich Coating
CAN/CGSB-1.186-M89	-	High Performance Glazed Coating System, Interior
CAN/CGSB-1.188-M90	**-**	**Emulsion Type Filler Masonry Block**
CGSB 1-GP-189M	-	Primer, Alkyd, Wood, Exterior
CAN/CGSB-1.195-M90	**-**	**Interior Semi-gloss Latex Paint**
CAN/CGSB-1.198-92	-	Cementitious Primer (for Galvanized Surfaces)
CAN/CGSB-1.202-92	-	Interior Low Gloss Alkyd Enamel
CAN/CGSB-1.203-M91	**-**	**Exterior Latex Wood Primer**
CAN/CGSB-1.204-92	**-**	**Exterior Latex Type Pigmented Stain**
CAN/CGSB-1.209-93	**-**	**Low Sheen Latex Interior Paint**
CGSB 85-GP-16M	-	Painting Galvanized Steel
CGSB 85-GP-32M	-	Painting Concrete Floors
CAN/CGSB-85.100-93	-	Painting
ECP	-	Environmental Choice Program
ECP-07-89	-	Water-borne Surface Coatings
ECP-12-89	-	Solvent-borne Paints
OPCA	-	Ontario Painting Contractors Association
SSPC	-	Steel Structures Painting Council, "Steel Structures Painting Manual, Vol. 2"
ULC	-	Underwriters' Laboratories of Canada
CAN/ULC-S102-M88	-	Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies
Min. of Labour, OHSB	-	Guideline, Lead on Construction Projects, 2001

0.4 DEFINITIONS

1. "Exposed" means visible in completed Work. In case of closets, cabinets and drawers, it includes their interiors.

0.5 QUALITY ASSURANCE

1. Perform work of this Section by applicator with minimum 5 years of proven, satisfactory and successful painting experience on projects of similar size and nature. Submit proof of such experience with list of projects in Canada upon the Consultant's request. Provide qualified crew of painters and full-time review of work by qualified supervisor for duration of work.

2. **Mock-Up**

   1. At Site, the Consultant will locate testing area to establish standard of workmanship, texture, gloss and coverage. Apply 300 mm x 300 mm (12" x 12") samples of each finish on each type of surface to be coated with correct material, number of coats, colour, texture and degree of gloss required. Provide additional samples, if required, to obtain approval. Do no painting until samples have been approved. Approved panels shall become standard of comparison for painting work on Site. Correct and refinish work which does not compare with approved finishes.

0.6 SUBMITTALS

1. **Materials**: Submit in writing list of proposed materials prepared by paint manufacturer, for approval at least 60 days before materials are required. List shall bear manufacturer's official certification that materials listed meet or exceed requirements specified herein.

2. **Samples**: Identify each sample by Project title, product finish, colour name, number, date and name of Contractor and Sub-Contractor. Submit samples of finishes to the Consultant and/or as directed for approval at least 30 days before materials are required.

   1. Submit opaque paint samples in triplicate on 100 mm x 150 mm (4" x 6") drawdown cards on black and white.
   2. Submit samples of stains and clear finishes in triplicate on 50 mm x 100 mm (2" x 4") piece of wood of same species as scheduled to receive stain or clear finish.
   3. Submit all Standard color deck of the KEIM Palette Exclusiv.

0.7 DELIVERY, STORAGE AND HANDLING

1. Deliver materials in original containers with labels intact and store in area indicated in accordance with manufacturers MSDS. Keep stored materials with lids securely covered.

2. Ventilate, heat and maintain storage area at minimum temperature of 10 deg C (50 deg F) and protected from direct rays of sun.

3. Take necessary precautions against fire and spontaneous combustion. Provide warning signs where toxic materials and explosive solvents are used. Provide $C0_2$ fire extinguisher of minimum 9 kg (20 lb) capacity in storage area while materials are stored within.

4. Leave storage areas clean and free from evidence of occupancy on completion.

0.8 PROJECT CONDITIONS

1. **Environmental Requirements:** Paint and finish in clean, dust-free, properly ventilated and adequately lit areas (minimum 100 lx (9.3 ft candles). Maintain adequate ventilation at all times to control excessive humidity.

2. Maintain minimum interior temperature of 18 deg C (65 deg F) during application and drying of paint and maintain until building occupancy occurs.

3. Do not undertake exterior painting if air and surface temperature are expected to fall below 10 deg C (50 deg F) before coating has dried. Avoid painting during winds, weather conditions which may affect paint application or following rain. Wait until frost, dew or condensation has evaporated. Avoid painting surfaces exposed directly to hot summer sun.

4. Follow procedures outlined in Guideline Lead on Construction Projects, 2001 during paint removal activities.

Part 2 PRODUCTS

0.1 MATERIALS

1. Painting and Finishing Materials

   1. Paint and finishing materials for each procedure listed in Finish Schedule shall be products of single manufacturer.

   2. Paint products shall meet or exceed requirements of ECP-07 Guidelines for water based paints and ECP-12 Guidelines for solvent based paints. In addition, paint products shall meet or exceed applicable performance standards issued by CGSB or other such standards approved by accredited standards writing organizations.

   3. Paint shall have excellent flowing and brushing properties. Paint shall cure free of sags, runs, wrinkles to yield desired finish specified.

   4. Number of competitive sources of supply are currently offering environmentally friendly paint products that conform to Environmental Choice Program guidelines and carry EcoLogo on paint containers. Several paint products currently supplied by following companies have been approved by ECP/CSA to carry EcoLogo. Not all products available from listed companies conform to stated guidelines.

   5. SOLVENT BASED PAINTS AND STAINS

      Benjamin Moore and Co., Ltd.
      Dulux Paints (Canada) Inc.
      PPG Canada Inc. (Coatings and Resins Division)
      Sherwin-Williams
      Para Paints Canada Inc.
      Sico Inc.

   6. Other manufacturer's products bearing EcoLogo shall be deemed acceptable provided they meet other requirements specified herein.

   7. **Calcimine paint:** alkyd based by Benjamin Moore, Dulux or Glidden as primer for heritage calcimine surfaces.

   8. **High Performance Industrial Coating (HPC)** for steel elements: Sherwin Williams Pro Industrial DTM Acrylic Eggshell Paint. Surface preparation and priming as per manufacturers recommendations.

9. **Mineral Silicate Paint:** Keim Exterior Mineral Silicate Paint, Granital with Contact Plus Bonding Primer or Romanit slaked lime paint with Contact Plus Bonding Primer. Selection of paint to be based on trial preparation of substrate masonry (including removal of existing coatings). Mock ups required. Standard colors of the KEIM Palette Exclusiv or Custom colour.

10. Intumescent**, Fire Retardant Paints and Varnishes**: To meet or exceed CAN/ULC-S102-M, bear ULC label, and have following surface burning characteristics:

Flame-Spread Rating	-	25 or less
Smoke-Developed Classification	-	50 or less

Part 3 EXECUTION

0.1 EXAMINATION

1. Verification of Surface Conditions

1. Do work only when surfaces and conditions are satisfactory for production of quality work. Report to the Consultant in writing any surfaces which are found to be unsatisfactory. Commencement of work shall imply acceptance of substrate surfaces.

2. Ensure temperature of surfaces to be finished is between 10 and 20 deg C (50 and 68 deg F) and surfaces are dry and free of dirt, grease or other contaminants that may affect applied finish.

3. Verify moisture content of surfaces with electronic moisture metre. Do not proceed without written directions if moisture reading is higher than 12-15%.

4. If substrate is steel, do not apply coatings over moisture or when surface temperature is within 3 deg C (5 deg F) of dew point.

5. If substrate is wood, do not stain or paint if moisture reading is higher than 12%. Inspect work to assure surfaces are smooth, free from machine marks and that nail heads have been countersunk.

6. If substrate is new plaster or masonry, allow to cure for 30 to 90 days. Ensure that moisture content is below 12% and test for alkalinity and neutralize (pH 6.5-7.5) before proceeding with priming.

7. If substrate is gypsum board, inspect to ensure joints are completely filled and sanded smooth. Inspect surfaces for "nail popping", screw heads not recessed and taped, breaks in surface or other imperfections and have repaired as required.

0.2 PREPARATION

1. Protection

1. Provide scaffolding, staging, platforms and ladders, as required for execution of

work. Erect scaffolding to avoid interference with work of other trades. Comply with Occupational Health and Safety Act.

2. Provide drop cloths or adequate plastic sheets to protect floors in areas assigned for storage and mixing of paints.

3. Remove finish hardware, electrical switch and outlet covers to protect from paint splatter. Mask items not removable. Use sufficient drop cloths and protective coverings for full protection of floors, furnishings, mechanical, electrical and special equipment, all other components of building which do not require painting or to be removed, from paint spotting and other soiling. Re-install items when paint is dry. Clean any components that are paint spotted or soiled.

4. Keep waste rags in covered metal drums containing water and remove from building at end of each day.

5. Prohibit traffic, where possible, from areas where painting is being carried out and until paint is cured. Post Awet paint@ or other warning signage during and on completion of work.

6. When handling solvent coating materials, wear approved vapour/particulate respirator as protection from vapours. Dust respirators do not provide protection from vapours.

2. Surface Preparation

1. Remove dust, grease, rust and extraneous matter from surfaces (except rust occurring on items specified to be primed under other Sections shall be removed and work reprimed under those Sections). Vacuum (fibre acoustic tile and) insulation covering surfaces.

2. Remove mildew by scrubbing affected area with solution of tri-sodium-phosphate (TSP) (150 g) and bleach (125 g) in 3.5 L water. Rinse well with clean water and allow to dry. If condition is serious, source out finishes with extra mildew resistance.

3. Ferrous Metal: Solvent clean to SSPC-SP1. Remove loose rust and prime bare metal with rust inhibitive steel primer. Touch-up damaged shop applied primer using compatible product. Provide full coat primer only if damage is extensive. Treat all weld areas with phosphoric acid (5% solution).

4. Structural Steel/Miscellaneous Steel (previously painted and exposed by alterations work): Remove oil, grease, dirt, rust scale, loose mill scale, loose paint or coating by brush-off blast cleaning to SSPC-SP7 or by water blasting at minimum 215.4 Kpa/sq cm (200 psi) at minimum flow rate of 0.25 l/sec (4 gal/min).

5. Metal Stacks, Breeching, Piping: Blast clean to 37-50 □m (1.5-2 mil) profile using grit abrasive to SSPC-SP6.

6. Aluminum: On exterior products, allow to weather for 4 to 6 weeks and high pressure steam or solvent wash to remove surface contamination. Remove thin oxide film or corrosion by power cleaning or hand clean such as sanding or

scraping. For interior application, solvent clean to SSPC-SP1 to remove oil, grease, dirt, oxides and other foreign material.

7. Hot Dipped Galvanized Steel (un-weathered): Allow to weather minimum of 26 weeks and Xylene clean to SSPC-SP1 prior to coating to remove dust, dirt, grease, oxides and other foreign material. Remove silicates or similar surface treatments or any deposits of white rust by sanding or similar abrasive methods (bronze wool). Use of acetic acid to prepare galvanized surfaces is not acceptable.

8. Woodwork for Painting: Seal all knots and sapwood in surfaces to receive paint with alcohol-based primer-sealer. Sand smooth rough surfaces of all woodwork to be finished and clean surfaces free of dust before applying first coat. Fill nail holes, splits and scratches with non-shrinking filler after first coat is dry. Remove salt deposits that may appear on wood surfaces treated with fire retarder.

9. Woodwork for Clear Finish or Stain: Sand smooth all woodwork to be finished and clean surfaces free of dust before applying first coat. Abrade surfaces with stiff brush to remove loose fibres and splinters. Fill nail holes, splits and scratches with non-shrinking filler tinted to match local grain condition after first coat is dry. Sand lightly between coats with No. 220 sandpaper and remove dust.

10. Plastic (PVC): Solvent clean to SSPC SP1. Sand lightly with No. 120 sandpaper and remove dust.

11. Previously Finished Surfaces: Clean existing interior and exterior surfaces to be repainted or varnished to provide bond. Remove rust, scale, oil, grease, mildew, chemicals and other foreign matter. Remove loose paint and fill flush with suitable patching material. Clean off bubbled, cracked, peeling or otherwise defective paint by stripping with suitable environmental strippers or by burning. Do not burn off paints suspected of having lead content. Treat residue from stripping as Hazardous Waste. Refer to Ministry of Labour Guideline Lead on Construction Projects. Flatten gloss paint and varnish with sandpaper and wipe off dust. If previous coatings have failed so as to affect proper performance or appearance of coatings to be applied, remove previous coatings completely and prepare substrates properly and refinish as specified for new work. Leave entire surface suitable to receive designated finishes and in accordance with finish manufacturer's instructions.

12. Concrete Block Masonry: Fill voids and cracks in masonry block wall to provide uniform surface for subsequent coats.

13. Plaster: Clean dry, free from dust, dirt, powdery residue, grease, oil, wax or any other contaminant accumulated since application. Do not sand plaster before painting.

14. Gypsum Board: Examine surfaces after for imperfections showing through and fill small nicks or holes with patching compound and sand smooth. Examine surfaces after priming for imperfections showing through. Clean surfaces dry, free of dust, dirt, powdery residue, grease, oil, wax or any other contaminants. Sand and dust as necessary prior to painting.

15. Coordinate work with Designated Substance Removals.

0.3 APPLICATION

1. Provide finish uniform in sheen, colour and texture, free from streaks, shiners and brush or roller marks or other defects.

2. Apply materials in accordance with manufacturer' directions and specifications. Do not use adulterants. Any reduction of coating's viscosity shall be done in accordance with manufacturer's directions.

3. Finish listed surfaces indicated on Room Finish Schedule(s) and/or noted on Drawing(s) and as specified hereunder.

4. Finishes and number of coats specified hereinafter in Finish Schedule are intended as minimum requirements guide only. Refer to manufacturer's recommendations for exact instructions for thickness of coating to obtain optimum coverage and appearance. Some materials and colours may require additional coats and deeper colours may require use of manufacturers' special tinted primers. Unless otherwise specified, provide Premium (3 coats) finish as defined by OPCA as minimum finish.

5. Obtain colour chart giving colour schemes and gloss value for various areas from the Consultant. Colour chart shall give final selection of colours and surface textures of all finishes, and whether finishes are transparent (natural) or opaque (paint).

6. Gloss terms shall have following values based on OPCA gloss reflectance guidelines.

Gloss Term	**Gloss Value**
Flat or Matt	0 to 5 Units at 60 deg and max 10 units at 85 deg
Eggshell, Velvet or Low Lustre	5 to 25 Units at 60 deg and min 10 units at 85 deg
Satin	20 to 35 Units at 60 deg
Semi-Gloss	35 to 65 Units at 60 deg
High-Gloss	65 and greater

7. Spraying not allowed without written permission.

8. Paint entire plane of areas exhibiting incomplete or unsatisfactory coverage and of areas which have been cut and patched. Patching not acceptable.

9. Do not paint baked enamel, chrome plated, stainless steel, aluminum or other surfaces finished with final finish in factory. Finish paint all primed surfaces.

10. Advise the Consultant when each applied paint coat can be inspected. Do not recoat without inspection. Tint each coat slightly to differentiate between applied coats.

11. Sand smooth enamel and varnish undercoats prior to recoating.

12. Apply primer coat soon after surface preparation is completed to prevent contamination of substrate.

13. Prime woodwork designated for painting as soon as possible after delivery to Site and before installation. Prime all cut surfaces, whether exposed or not, i.e. all six edges of wood doors, before installation. Prime all cut surfaces of woodwork to receive transparent finish with 1 coat of transparent finish reduced 25%.

14. Fill open grain woods with filler tinted to match wood and work well into grain. Wipe excess from surface before filler sets.
15. Apply primer-sealer coats by brush or roller. Permit to dry in accordance with manufacturer's recommendations before applying succeeding coats. Touch up suction spots and sand between coats with No. 120 sandpaper.

16. Apply primer coat to unprimed ferrous metal surfaces. Where sandblast preparation is specified, apply specified primer immediately after blast cleaning.

17. Apply final coats on smooth surfaces by roller or brush. Hand brush wood trim surfaces.

18. **Existing Surfaces**

    1. Refinish existing surfaces of rooms or areas which have been damaged, altered or otherwise affected by Work. Also finish "new" work occurring thereon unless otherwise specified. Use same procedure as for new work but primer (or filler, stain and sealer in case of varnish finish) may be omitted. Prepare existing surfaces as specified herein. Finish shall match similar new surfaces finish.
    2. Paint or repaint rooms or areas where noted on Room Finish Schedule and/or as indicated on Drawings.
    3. Repaint surfaces entirely between changes of plane.

19. **Intumescent, Fire Retardant, Paints and Varnishes**

    1. Apply intumescent fire retardant paints and varnishes where so indicated on Drawings and/or Room Finish Schedule(s) or as specified herein in accordance with manufacturers' recommended spreading rate to meet specified surface burning characteristics.
    2. Finish existing surfaces previously painted with fire retardant varnishes or paints with overcoat of intumescent paint to retain fire retardancy of surface.
    3. White intumescent fire retardant paints may be tinted to pastel colours, provided colorants are added in accordance with manufacturer's recommended rate. Tinting of intumescent paints at Site is prohibited.
    4. Do not overcoat fire retardant paints and varnishes with standard type paints and varnishes.

20. **Mechanical and Electrical Work**

    1. Read Section 15010, General Mechanical Requirements and Section 16010, General Electrical Requirements for instruction on painting Mechanical and Electrical work and perform such work under supervision of respective Mechanical and Electrical Divisions.
    2. Finish paint primed mechanical equipment: heaters, convectors, radiators, wall fin perimeter induction units, fan coil units, and similar items.
    3. Prime and paint exposed, unfinished electrical raceways, fittings, outlet boxes, junction boxes, pull boxes, and similar items.

4. Keep sprinkler heads free of paint.
5. Take steps to protect gauges, identification plates and similar items from being painted over or paint splattered.
6. Remove grilles, covers, access panels for mechanical and electrical systems from installed location and paint separately, if these items are not factory finished.
7. Paint work to match surfaces they are seen against unless directed otherwise.
8. Paint interior surfaces of air ducts visible through grilles and louvres, with 1 coat of flat black metal paint to limit of sight line.

0.4 FIELD QUALITY CONTROL

1. Test compatibility of fire-retardant coatings with non-fire retardant coatings. If incompatible and bubbles appear, remove existing non-fire retardant coatings and prepare surfaces as specified hereinbefore.

0.5 CLEANING

1. Upon completion, remove masking and clean adjacent surfaces free of overspray spatters, drips, smears and overspray.

0.6 DISPOSAL OF PAINT WASTE

1. Be responsible for removal and disposal of material and waste generated by this Section.

2. Remove empty and partly used containers from Site and recycle or disposed of as Hazardous Waste in accordance with local municipal, provincial and federal environmental regulations. Provide proof of such action in form of receipts of tipping fees, disposal fees or bills of lading, as applicable.

3. Remove from Site peripheral items, such as clean up solvents, paint brushes, rags, and similar items and dispose of where necessary in accordance with local municipal, provincial and federal environmental regulations.

4. Do not rinse off of latex paints from brushes and rags under running water tap. While work is ongoing, whether using latex or alkyd products, rinse off all brushes and rags in container with appropriate solvent (water or paint thinner). Leave such container in well lit and well ventilated area , away from any flammable conditions. Dispose of emulsion created in accordance with local municipal, provincial and federal environmental regulations.

0.7 EXTERIOR FINISH SCHEDULE

1. **Ferrous Metal (with existing shop coat primer)**

   Touch up shop primer
   2 coats High Performance Industrial Coating, top coat

2. **Exterior brick, Limestone and Rubblestone**

   Also used for areas where formerly exterior masonry is interior to the new addition.

After acceptance of paint stripping by heritage consultant:
1 coat of Contact Plus Bonding Primer, **and**
2 coats Keim Granital Exterior Mineral Silicate Paint, diluted as per manufacturers recommendations, **or**
1 coat of Contact Plus Bonding Primer, **and**
2 coats Romanit slaked lime paint, thinned with water as per manufacturers recommendations

3. **Galvanized Steel/Aluminum**

1 coat cementitious primer
2 coats exterior acrylic latex coating

OR

1 coat cementitious primer
1 coat exterior alkyd-based top coat (alkyd, alkyd urethane)

4. **Woodwork - Painting**

1 coat exterior alkyd primer
2 coats exterior acrylic latex coating
Finish: Semi-gloss

0.8 INTERIOR FINISH SCHEDULE

1. Ferrous Metal (with existing shop coat primer) - Unexposed

No further finishing required except for touch-up of damaged surfaces.

2. Ferrous Metal (with existing shop coat primer) - Exposed

Touch up shop primer
2 coats High Performance Industrial Coating, top coat

3. Hot Ferrous Metal under 185 deg C - (400 deg F)

(Valve bodies, strainers and other items on high temperature lines if exposed)
2 coats heat resistant enamel containing not less than 40% solids by volume aluminum flakes.

4. Insulated Pipes, Ducts, Conduit, Valves, Fittings and Equipment and Ancillary Items where "Exposed" in Completed Work

1 coat latex primer sealer
2 coats interior latex enamel

5. Non-insulated Pipes, Ducts, Conduit, Valves, Fittings and Equipment and Ancillary Items where "Exposed" in Completed Work

1 coat structural steel primer

2 coats interior latex enamel

6. **Galvanized Steel/**Aluminum

   1 coat cementitious primer
   2 coats acrylic latex coating

   OR

   1 coat cementitious primer
   1 coat alkyd-based top coat (alkyd, alkyd urethane)

7. **Woodwork - Vertical Surfaces for Painting**

   1 coat alkyd enamel underbody
   2 coats alkyd or latex coating (as applicable)
   Finish: Semi-gloss

8. **Woodwork - For Clear Finishes and Staining**

   Follow manufacturer=s instructions for number of coats and method of applying interior stain and clear finishes.

9. **Woodwork - Interior of Drawers**

   1 coat water based urethane
   Finish:(Semi-gloss) (High-gloss)

10. **Woodwork - Painted (Fire Retardant)**

    1 coat undercoater, enamel, interior
    1 coat alkyd intumescent paint, flat
    1 fire retardant overcoat
    Finish: Semi-gloss

11. **Woodwork - Natural or Stained Close Grain Wood (Fire Retardant)**

    1 coat non-bleeding alkyd stain
    1 coat sealer
    2 coats fire retardant intumescent varnish
    1 coat fire resistant varnish
    Finish: Semi-gloss

12. **Existing Painted Surfaces (Fire Retardant)**

    Prime patches with conventional primer suitable for material being primed.
    1 coat alkyd intumescent paint, flat
    1 fire retardant overcoat
    Finish: (Semi-gloss)(High-gloss)

13. Concrete Block Masonry

1 coat latex block filler
2 coats acrylic latex coating
Finish: (Satin) (Semi-gloss)

14. Gypsum Board and Plaster - Vertical Surfaces

1 coat latex primer sealer.
2 coats acrylic latex coating
Finish: Satin

15. Gypsum Board and Plaster - Ceilings

1 coat dry fall latex (minimum 2400 mm (8') dry fall)
Finish: Flat

OR

1 coat latex primer sealer
2 coats acrylic latex coating
Finish: Flat

End of Section 09 91 00