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**PART 1 - GENERAL**

**SPEC NOTES:**

- .1 Use this guide specification when a "short form" specification is required to specify painting and decorating work on new, previously unpainted surfaces.
- .2 Refer to the **MPI Architectural Manual "long form" painting specification for guidance and spec notes when using this specification.**

**1.1 Description:**

**SPEC NOTE:** *This article (1.1) is not intended to "scope" the work but to serve as a general description. The onus of defining the extent of this section of Work remains with the Project General Contractor, who will ensure that the area / scope of responsibility of any particular Subcontractor / supplier is set out in full detail when awarding the painting and decorating subcontract. The extent of this section of Work is also governed by the limits of local trade agreements and conditions.*

- .1 Section Includes: All labor, materials, tools and other equipment, services and supervision required to complete all exterior and interior painting and decorating work as indicated on Finish Schedules and to the full extent of the drawings and specifications.
- .2 The Work shall also include, but not necessarily be limited to surface preparation of substrates as required for acceptance of painting, including cleaning, small crack repair, patching, caulking, making good surfaces and areas, pre-treatment, priming and back-priming to the extent / limits defined under **MPI** preparation requirements.
- .3 [Provide Unit, Separate and/or Alternative Prices for items indicated in Section [01215] and/or on Bid Form.]

**1.2 Quality Assurance:**

- .1 This Contractor shall have a minimum of five (5) years proven satisfactory experience and shall maintain a qualified crew of painters throughout the duration of the work.
- .2 Only qualified journeypersons, as defined by local jurisdiction shall be engaged in painting and decorating work. Apprentices may be employed provided they work under the direct supervision of a qualified journeyperson in accordance with trade regulations.
- .3 All materials, preparation and workmanship shall conform to requirements of the latest edition of the Architectural Painting Specification Manual by the Master Painters Institute (**MPI**) (hereafter referred to as the **MPI** Painting Manual) as issued by the local **MPI** Accredited Quality Assurance Association having jurisdiction.
- .4 All paint manufacturers and products used shall be as listed under the Approved Product List section of the **MPI** Painting Manual.
- .5 All painting and decorating work shall be inspected by a Paint Inspection Agency (inspector) acceptable to the specifying authority and the local **MPI** Accredited Quality Assurance Association. The painting contractor shall notify the Paint Inspection Agency a minimum of one week prior to commencement of work and provide a copy of the project painting specification, plans and elevation drawings (including pertinent details) as well as a Finish Schedule.
- .6 **All surfaces requiring painting shall be inspected** by the Paint Inspection Agency who shall notify the Consultant and General Contractor in writing of any defects or problems, prior to commencing painting work, or after the prime coat shows defects in the substrate.
- .7 The painting contractor shall receive written confirmation of the specific surface preparation procedures and primers used for all fabricated steel items from the fabricator / supplier to ascertain appropriate and manufacturer compatible finish coat materials to be used before painting any such work.

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**1.3 Regulatory Requirements:**

- .1 Conform to work place safety regulations and requirements of those authorities having jurisdiction for storage, mixing, application and disposal of all paint and related hazardous materials.

**1.4 Submittals / Mock-Up:**

- .1 Submit consent of surety with Bid Submission as proof of ability to supply a 100% two (2) year Maintenance Bond, if an **MPI** Accredited Quality Assurance Association's guarantee option is not used.
- .2 If requested, submit an invoice list of all painting materials ordered for project work to Paint Inspection Agency indicating manufacturer, types and quantities for verification and compliance with specification and design requirements.
- .3 Submit two sets of Material Safety Data Sheets (MSDS) prior to commencement of work for review and for posting at job site as required.
- .4 At project completion provide an itemized list complete with manufacturer, paint type and color-coding for all colors used for Owner's later use in maintenance.
- .5 When requested by the Consultant or Paint Inspection Agency, prepare and paint a designated surface, area, room or item (in each color scheme) to requirements specified herein, with specified paint or coating showing selected colors, gloss/sheen, textures and workmanship to **MPI** Painting Specification Manual standards for review and approval. When approved, surface, area, room and/or items shall become acceptable standard of finish quality and workmanship for similar on-site work.

**1.5 Product Delivery, Storage, and Handling:**

- .1 Deliver and store all painting materials in sealed, original labeled containers bearing manufacturer's name, brand name, type of paint or coating and color designation, standard compliance, materials content as well as mixing and/or reducing and application requirements in strict accordance with manufacturer and **MPI** requirements.

**1.6 Environmental, Waste Management and Disposal Requirements:**

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- .1 Perform no painting or decorating work when the ambient air and substrate temperatures, relative humidity and dew point and substrate moisture content is below or above requirements for both interior and exterior work.
- .2 Apply paint only to dry, clean, properly cured and adequately prepared surfaces in areas where dust is no longer generated by construction activities such that airborne particles will not affect the quality of finished surfaces.
- .3 Ensure adequate continuous ventilation and sufficient heating and lighting is in place.
- .4 Paint, stain and wood preservative finishes and related materials (thinners, solvents, caulking, empty paint cans, cleaning rags, etc.) shall be regarded as hazardous products. Recycle and dispose of same subject to regulations of applicable authorities having jurisdiction.
- .5 To reduce the amount of contaminants entering waterways, sanitary/storm drain systems or into the ground retain cleaning water and filter out and properly dispose of sediments.
- .6 Set aside and protect surplus and uncontaminated finish materials not required by the Owner and deliver or arrange collection for verifiable re-use or re-manufacturing.

**1.7 Guarantee:**

- .1 Provide and pay for either the local **MPI** Accredited Quality Assurance Association's two (2) year guarantee, or, alternatively, a 100% two (2) year Maintenance Bond - both in accordance with **MPI** Painting Manual requirements. The Maintenance Bond shall warrant that all painting work has been performed in accordance with **MPI** Painting Manual requirements.
- .2 **All surfaces requiring painting shall be inspected** by the Paint Inspection Agency who shall notify the

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Consultant and General Contractor in writing of any defects or problems, prior to commencing painting work, or after the prime coat shows defects in the substrate.

## PART 2 - PRODUCTS

### 2.1 Materials:

**SPEC NOTE:** *Delete, revise or add to the example selections below to suit project requirements.*

- .1 Only materials (primers, paints, coatings, varnishes, stains, lacquers, fillers, etc.) listed in the latest edition of the **MPI** Approved Product List (APL) are acceptable for use on this project. All such material shall be from a single manufacturer for each system used.
- .2 Other materials such as linseed oil, shellac, thinners, solvents, etc. shall be the highest quality product of an **MPI** listed manufacturer and shall be compatible with paint materials being used as required.
- .3 Where required, use only materials having a minimum **MPI** "Environmentally Friendly" [E1] [E2] [E3] rating based on VOC (EPA Method 24) content levels. Where indoor air quality (odour) is an issue, use only **MPI** listed materials having a minimum [E2] [E3] rating.
- .4 [Where required to meet LEED (Leadership in Energy and Environmental Design) program requirements, use only MPI listed materials having an "L" rating designation.]

### 2.2 Mixing and Tinting:

- .1 Unless otherwise specified herein or pre-approved, all paint shall be ready-mixed and pre-tinted. Re-mix all paint in containers prior to and during application to ensure break-up of lumps, complete dispersion of settled pigment, and color and gloss uniformity. Where thinner is used, addition shall not exceed paint manufacturer's recommendations.

### 2.3 Finish, Color, Gloss / Sheen:

- .1 Unless otherwise noted, all painting work shall be in accordance with **MPI** [Custom] [Premium] Grade finish requirements.
- .2 Colors shall be as selected by the Consultant from a manufacturer's full range of colors. [Refer to Finish Schedule for identification and location of colors] [The schedule will be furnished after award of the Contract, except general requirements shall be as noted herein].

**SPEC NOTE:** *Delete, revise or add to the following example selections below to suit project requirements.*

- .3 Color selection will be based on [five (5)] base colors and [three (3)] accent colors with a maximum of [one (1)] deep or bright color. No more than [eight (8)] colors will be selected for the entire project and no more than [three (3)] colors will be selected in each area. Note that this does not include pre-finished items by others, e.g. flashings, windows, etc.
- .4 Gloss level ratings of all painted surfaces shall be as noted on Finish Schedule. Refer to **MPI** Painting Manual for gloss level definitions and requirements.

## PART 3 - EXECUTION

### 3.1 Condition and Preparation of Surfaces:

- .1 The condition and preparation requirements for all surfaces shall be in accordance with **MPI** Painting Manual requirements.

### 3.2 Application:

- .1 Do not paint unless substrates are acceptable and/or until all environmental conditions (heating, ventilation, lighting and completion of other subtrade work) are acceptable for applications of products.
- .2 Apply paint or stain in accordance with noted **MPI** finish Grade requirements.
- .3 Painting coats specified are intended to cover surfaces satisfactorily when applied at proper consistency and in accordance with manufacturer's recommendations. Apply a minimum of four coats of paint where deep or bright colors are used to achieve satisfactory results.

**SPEC NOTE:** Refer to "long form" specification for spec note information when using the following systems.

### 3.3 Exterior Finish / Coating Systems:

Paint exterior surfaces in accordance with the following **MPI** Painting Manual requirements:

- .1 **Asphalt Surfaces:** (zone / traffic marking for drive and parking areas, etc.)
  - EXT 2.1A Latex zone / traffic marking finish.
  - EXT 2.1B Alkyd zone / traffic marking finish.
- .2 **Concrete Vertical Surfaces:** (including horizontal soffits)
  - EXT 3.1A Latex [insert gloss level] finish.
  - EXT 3.1B Latex [insert gloss level] finish over latex [insert texture type] aggregate.
  - EXT 3.1C Water based light industrial [insert gloss level] coating.
  - EXT 3.1D Epoxy finish.
  - EXT 3.1E Epoxy-modified latex finish.
  - EXT 3.1F Elastomeric coating.
  - EXT 3.1G Water repellent (non-paintable) finish.
  - EXT 3.1H Water repellent (paintable) finish.
  - EXT 3.1J Concrete stain finish.
  - EXT 3.1K Latex [insert gloss level] finish (over alkali resistant primer).
  - EXT 3.1L High-build latex finish.
  - EXT 3.1M Polyurethane, pigmented finish (over epoxy).
  - EXT 3.1N Latex [insert gloss level] [insert texture type] aggregate finish.
- .3 **Concrete Horizontal Surfaces:** (decks, stairs, driveways, parking and court areas, etc.)
  - EXT 3.2A Latex floor paint [gloss] [low gloss] finish.
  - EXT 3.2B Latex deck coating.
  - EXT 3.2C Epoxy non-slip deck coating.
  - EXT 3.2D Alkyd floor enamel [insert gloss level] finish.
  - EXT 3.2E Latex zone / traffic marking finish. [for parking lines, etc]
  - EXT 3.2F Alkyd zone / traffic marking finish. [for parking lines, etc]
  - EXT 3.2G Sealer, clear finish.
  - EXT 3.2H Sealer, clear, water based finish.
  - EXT 3.2J Concrete stain finish.
- .4 **Cementitious Composition Board Surfaces:** (vertical surfaces, horizontal soffits)
  - EXT 3.3A Latex [insert gloss level] finish.
  - EXT 3.3B Alkyd [insert gloss level] finish.
  - EXT 3.3C Water based light industrial [insert gloss level] coating.
  - EXT 3.3D Epoxy-modified latex finish.
  - EXT 3.3E Epoxy finish.
  - EXT 3.3F Polyurethane, pigmented finish (over epoxy).
  - EXT 3.3G Latex [insert gloss level] [insert texture type] aggregate finish.
  - EXT 3.3H High-build latex finish.
  - EXT 3.3J Latex [insert gloss level] finish (over alkali resistant primer).

.5 **Clay Masonry Units:** (pressed and extruded brick)

EXT 4.1A	Latex [insert gloss level] finish.
EXT 4.1B	Latex [insert gloss level] [insert texture type] aggregate finish.
EXT 4.1C	Water based light industrial [insert gloss level] coating.
EXT 4.1D	Epoxy finish. [for smooth brick]
EXT 4.1F	Water repellent (non-paintable) finish.
EXT 4.1G	Water repellent (paintable) finish.
EXT 4.1H	High-build latex finish.
EXT 4.1J	Polyurethane, pigmented finish (over epoxy).

.6 **Concrete Masonry Units:** (smooth and split face block and brick).

EXT 4.2A	Latex [insert gloss level] finish (over block filler).
EXT 4.2B	Latex [insert gloss level] [insert texture type] aggregate finish.
EXT 4.2C	Water based light industrial [insert gloss level] coating. [for moderate chemical resistance]
EXT 4.2D	Elastomeric coating.
EXT 4.2E	Epoxy finish.
EXT 4.2G	Polyurethane, pigmented finish (over high build epoxy).
EXT 4.2H	Water repellent (non-paintable) finish. [not for use on light weight block]
EXT 4.2J	Water repellent (paintable) finish. [not for use on light weight block]
EXT 4.2K	High-build latex finish.
EXT 4.2L	Latex [insert gloss level] finish (over alkali resistant primer).

.7 **Structural Steel and Metal Fabrications:**

EXT 5.1A	Quick dry enamel [insert gloss level] finish.
EXT 5.1B	Water based light industrial [insert gloss level] coating (over inorganic zinc primer).
EXT 5.1C	Water based light industrial [insert gloss level] coating (over alkyd primer).
EXT 5.1D	Alkyd [insert gloss level] finish (over alkyd primer).
EXT 5.1F	Epoxy (over H.B. epoxy) finish.
EXT 5.1G	Polyurethane, pigmented finish (over epoxy zinc rich primer and high build epoxy).
EXT 5.1H	Polyurethane, pigmented finish (over epoxy).
EXT 5.1J	Polyurethane, pigmented finish (over high build epoxy).
EXT 5.1K	Aluminum paint finish.
EXT 5.1L	Polyurethane, pigmented finish (over inorganic zinc primer and high build epoxy).
EXT 5.1M	Water based light industrial [insert gloss level] coating (over water based primer).
EXT 5.1N	Water based light industrial [insert gloss level] coating (over epoxy primer).
EXT 5.1P	Polyurethane, pigmented finish (over epoxy zinc rich primer).
EXT 5.1Q	Alkyd [insert gloss level] finish (over surface tolerant primer).
EXT 5.1R	Water based light industrial [insert gloss level] coating (over H. B. epoxy).
EXT 5.1S	Epoxy (over self-priming epoxy).
EXT 5.1T	Polyurethane, pigmented finish (over self-priming epoxy).
EXT 5.1V	Epoxy deck coating finish (with SRA).
EXT 5.1X	Epoxy finish (with SRA) (over self-priming epoxy).

.8 **Steel - High Heat:** (heat exchangers, breeching, pipes, flues, stacks, etc., with temperature range as noted)

EXT 5.2A	Heat resistant enamel finish, maximum 400° F (205° C)
EXT 5.2B	Heat resistant enamel, aluminum finish, maximum 800° F (427° C).
EXT 5.2C	Inorganic zinc rich coating, maximum 750° F (400° C).
EXT 5.2D	High heat resistant coating, maximum 1100° F (593° C).

.9 **Galvanized Metal:** (not chromate passivated)

For high contact / high traffic areas (doors, frames, railings, misc. steel, pipes, etc.)  
For low contact / low traffic areas (overhead decking, ducts, gutters, flashing, etc.)

EXT 5.3A	Latex [insert gloss level] finish.
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| EXT 5.3B | Alkyd [insert gloss level] finish.   |
| EXT 5.3C | Epoxy finish. [for use on high contact / high traffic areas]   |
| EXT 5.3D | Polyurethane, pigmented finish (over vinyl wash and epoxy primer). [for use on high contact / high traffic areas]                    |
| EXT 5.3E | Bituminous finish. [for use on low contact / low traffic areas, e.g. unexposed galvanized metal next to concrete, masonry, etc.]     |
| EXT 5.3F | Aluminum paint finish. [for use on low contact / low traffic areas only]   |
| EXT 5.3G | Water based light industrial [insert gloss level] coating. [for moderate chemical resistance]  |
| EXT 5.3H | Latex [insert gloss level] finish (over water based primer). [for low contact / low traffic areas - do not use flat finish on doors] |
| EXT 5.3J | Water based light industrial [insert gloss level] coating (over water based primer). [for moderate chemical resistance]              |
| EXT 5.3K | Water based light industrial [insert gloss level] coating (over epoxy).  |
| EXT 5.3L | Polyurethane, pigmented finish (over epoxy primer) [for use on high contact / high traffic areas]                                    |
- .10 **Aluminum:** (sash, sills and frames, flashing, posts and railings, downpipes, etc.)
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| EXT 5.4A | Alkyd [insert gloss level] finish (over vinyl wash primer and quick dry primer). |
| EXT 5.4B | Polyurethane, pigmented finish (over epoxy).                                     |
| EXT 5.4C | Aluminum paint finish.   |
| EXT 5.4D | Bituminous finish. [for unexposed aluminum next to concrete, masonry, etc.]      |
| EXT 5.4E | Epoxy finish.  |
| EXT 5.4F | Alkyd [insert gloss level] finish (over quick dry primer).                       |
| EXT 5.4G | Water based light industrial [insert gloss level] coating.                       |
| EXT 5.4H | Latex [insert gloss level] finish.   |
- .11 **Copper:** (excluding roofs)
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| EXT 5.5A | Alkyd [insert gloss level] finish (over vinyl wash primer).                                  |
| EXT 5.5B | Polyurethane, pigmented finish (over epoxy).   |
| EXT 5.5C | Aluminum paint finish.   |
| EXT 5.5D | Bituminous finish. [for unexposed copper next to concrete, masonry, etc.]                    |
| EXT 5.5E | Epoxy finish.  |
| EXT 5.5F | Alkyd [insert gloss level] finish (over alkyd primer). [for properly prepared surfaces only] |
| EXT 5.5G | Water based light industrial [insert gloss level] coating.                                   |
| EXT 5.5H | Latex [insert gloss level] finish.   |
- .12 **Stainless Steel:** (unpolished)
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| EXT 5.6A | Alkyd [insert gloss level] finish.                         |
| EXT 5.6B | Polyurethane, pigmented finish.                            |
| EXT 5.6C | Aluminum paint finish.                                     |
| EXT 5.6D | Epoxy finish.  |
| EXT 5.6F | Latex [insert gloss level] finish.                         |
| EXT 5.6G | Water based light industrial [insert gloss level] coating. |
- .13 **Glue Laminated Beams and Columns:**
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| EXT 6.1A | Latex [insert gloss level] finish (over alkyd primer).       |
| EXT 6.1B | Alkyd [insert gloss level] finish.                           |
| EXT 6.1C | Solid color stain finish.                                    |
| EXT 6.1D | Varnish [gloss] [semi-gloss] finish (over stain).            |
| EXT 6.1E | Polyurethane, clear, 2 component finish (over stain).        |
| EXT 6.1F | Fire retardant, pigmented coating.                           |
| EXT 6.1G | Fire retardant penetrating wood preservative, clear coating. |
| EXT 6.1H | Polyurethane, clear, 2 component finish.                     |
| EXT 6.1J | Polyurethane, pigmented finish.                              |
| EXT 6.1K | Varnish [gloss] [semi-gloss] finish.                         |
| EXT 6.1L | Latex [insert gloss level] finish (over latex primer).       |
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- EXT 6.1M Varnish, water based [insert gloss level].
- .14 **Dimension Lumber:** (columns, beams, exposed joists, underside of decking, siding, fencing, etc.)
- EXT 6.2A Latex [insert gloss level] finish (over alkyd primer).  
EXT 6.2B Solid color, water based stain finish.  
EXT 6.2C Alkyd [insert gloss level] finish.  
EXT 6.2D Solid color stain finish.  
EXT 6.2E Varnish [gloss] [semi-gloss] finish (over stain).  
EXT 6.2F Fire retardant, pigmented [insert gloss level] coating.  
EXT 6.2G Fire retardant penetrating wood preservative, clear coating.  
EXT 6.2H Polyurethane, clear, 2 component finish.  
EXT 6.2J Polyurethane, pigmented finish.  
EXT 6.2K Varnish [gloss] [semi-gloss] finish.  
EXT 6.2L Semi-transparent stain finish.  
EXT 6.2M Latex [insert gloss level] finish (over latex primer).  
EXT 6.2N Varnish, water based [insert gloss level] finish.  
EXT 6.2P Stain, Semi-Transparent, water based.
- .15 **Dressed Lumber:** (doors, door and window frames, casings, battens, smooth facias, etc.)
- EXT 6.3A Latex [insert gloss level] finish. [do not use flat finish on doors]  
EXT 6.3B Alkyd [insert gloss level] finish. [do not use flat finish on doors]  
EXT 6.3C Solid color stain finish. [do not use on high contact areas or on doors]  
EXT 6.3D Semi-transparent stain finish. [do not use on doors]  
EXT 6.3E Varnish [gloss] [semi-gloss] finish (over stain).  
EXT 6.3F Varnish [gloss] [semi-gloss] finish.  
EXT 6.3G Polyurethane, clear, 2 component finish.  
EXT 6.3H Polyurethane, pigmented finish.  
EXT 6.3J Water based light industrial [gloss] [semi-gloss] coating. [for doors and frames only]  
EXT 6.3K Solid color stain, water based finish. [do not use flat for doors and frames]  
EXT 6.3L Latex [insert gloss level] finish (over latex primer). [do not use flat finish on doors]  
EXT 6.2M Varnish, water based [insert gloss level] finish.  
EXT 6.2N Stain, semi-transparent, water based.
- .16 **Wood Paneling:** (plywood siding, fascias, soffits, etc.)
- EXT 6.4A Solid color stain, water based finish.  
EXT 6.4B Alkyd [insert gloss level] finish.  
EXT 6.4C Solid color stain finish.  
EXT 6.4D Semi-transparent stain finish.  
EXT 6.4E Fire retardant, pigmented coating.  
EXT 6.4F Fire retardant penetrating wood preservative, clear coating.  
EXT 6.4G Latex [insert gloss level] finish (over alkyd primer).  
EXT 6.4H Varnish [gloss] [semi-gloss] finish.  
EXT 6.4J Varnish [gloss] [semi-gloss] finish (over stain).  
EXT 6.4K Latex [insert gloss level] finish (over latex primer).  
EXT 6.2L Stain, semi-transparent, water based.
- .17 **Wood Decks and Stairs / Steps:** (using spaced lumber)
- EXT 6.5A Latex porch and floor [gloss] [low gloss] finish [with SRA] (over alkyd primer).  
EXT 6.5B Alkyd floor enamel [gloss] [low gloss] finish [with SRA].  
EXT 6.5C Alkyd floor enamel [gloss] [low gloss] finish [with SRA] (over wood preservative). [for untreated wood].  
EXT 6.5D Deck stain (over wood preservative).  
EXT 6.5E Latex porch and floor [gloss] [low gloss] finish [with SRA] (over latex primer).
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- EXT 6.5F Deck stain finish.  
EXT 6.5G Latex deck coating. [for plywood decks]
- .18 **Wood Shingles and Shakes:** (excluding roofs)
- EXT 6.6A Latex [insert gloss level] finish (over alkyd primer).  
EXT 6.6B Alkyd [insert gloss level] finish.  
EXT 6.6C Solid color stain finish.  
EXT 6.6D Solid color stain, water based finish.  
EXT 6.6E Latex [insert gloss level] finish (over latex primer).  
EXT 6.6F Semi-transparent stain finish.
- .19 **Fiberglass:** (panels, trims, fabrications, etc.)
- EXT 6.7A Latex [insert gloss level] finish.  
EXT 6.7B Alkyd [insert gloss level] finish.  
EXT 6.7C Water based light industrial [insert gloss level] coating.  
EXT 6.7D Polyurethane, pigmented finish (over epoxy).  
EXT 6.7E Epoxy-modified latex Finish..  
EXT 6.7F Epoxy finish.
- .20 **Plastic:** (vinyl siding and windows including related trims, ABS / PVA / PVC materials, fabrications, etc.)
- EXT 6.8A Latex [insert gloss level] finish.  
EXT 6.8B Alkyd [insert gloss level] finish.  
EXT 6.8C Water based light industrial [insert gloss level] coating.
- .21 **Stucco:** (walls and soffits)
- EXT 9.1A Latex [insert gloss level] finish  
EXT 9.1B Water based light industrial [insert gloss level] coating.  
EXT 9.1C Elastomeric coating.  
EXT 9.1D Epoxy finish.  
EXT 9.1F Water repellent (non-paintable) finish.  
EXT 9.1G Water repellent (paintable) finish.  
EXT 9.1H High-build latex finish.  
EXT 9.1J Latex [insert gloss level] finish (over alkali resistant primer).
- .22 **Canvas and Cotton Coverings:** (pipes, ductwork, etc.)
- EXT 10.1A Latex [insert gloss level] finish.  
EXT 10.1B Water based light industrial [insert gloss level] coating.  
EXT 10.1C Alkyd [insert gloss level] finish.  
EXT 10.1D Aluminum paint finish.
- .23 **Bituminous Coated Surfaces:** (cast iron pipe, concrete, etc.)
- EXT 10.2A Latex [insert gloss level] finish.  
EXT 10.2B Latex [insert gloss level] [insert texture type] aggregate finish.  
EXT 10.2C Alkyd [insert gloss level] finish.  
EXT 10.2D Aluminum paint finish.

### 3.4 Interior Paint and Coating Systems:

Paint interior surfaces in accordance with the following **MPI** Painting Manual requirements:

- .1 **Asphalt Surfaces:** (zone / traffic marking of interior drive and parking areas)
- INT 2.1A Latex zone / traffic marking finish.  
INT 2.1B Alkyd zone / traffic marking finish.

.2 **Concrete Vertical Surfaces:** (including horizontal soffits)

INT 3.1A	Latex [insert gloss level] finish (over primer).
INT 3.1B	Latex [insert gloss level] finish over [insert texture type] latex aggregate.
INT 3.1C	High performance architectural latex [insert gloss level] finish.
INT 3.1D	Alkyd [insert gloss level] finish.
INT 3.1E	Latex [insert gloss level] finish.
INT 3.1F	Epoxy (tile-like) finish. [for smooth concrete]
INT 3.1G	Epoxy-modified latex finish [for smooth concrete]
INT 3.1H	Multicolor finish.
INT 3.1J	Water repellent paintable finish.
INT 3.1K	Concrete stain finish.
INT 3.1L	Water based light industrial [insert gloss level] coating.
INT 3.1M	Institutional low odor / low VOC [insert gloss level] finish.
INT 3.1N	Latex [insert gloss level] [insert texture type] aggregate coating.

.3 **Concrete Horizontal Surfaces:** (floors and stairs)

INT 3.2A	Latex floor enamel [gloss] [low gloss] finish.
INT 3.2B	Alkyd floor enamel [gloss] [low gloss] finish.
INT 3.2C	Epoxy finish.
INT 3.2D	Pigmented polyurethane finish.
INT 3.2E	Concrete stain finish.
INT 3.2F	Concrete floor sealer finish.
INT 3.2G	Concrete floor sealer, water based finish.
INT 3.2H	Latex zone / traffic marking finish. [for parking lines, etc]
INT 3.2J	Alkyd zone / traffic marking finish. [for parking lines, etc]
INT 3.2K	Polyurethane, Clear (2 component) finish.

.4 **Cementitious Composition Board Surfaces:**

INT 3.3A	Latex [insert gloss level] finish.
INT 3.3B	High performance architectural latex [insert gloss level] finish.
INT 3.3C	Alkyd [insert gloss level] finish.
INT 3.3D	Epoxy-Modified Latex finish.
INT 3.3E	Epoxy (tile like) finish.
INT 3.3F	Multicolor finish.
INT 3.3G	Institutional low odor / low VOC [insert gloss level] finish.
INT 3.3H	Water based light industrial [insert gloss level] coating.

.5 **Clay Masonry Units:** (pressed and extruded brick)

INT 4.1A	Latex [insert gloss level] finish.
INT 4.1B	Latex [insert gloss level] [insert texture type] aggregate coating.
INT 4.1C	Water based light industrial [insert gloss level] coating.
INT 4.1D	Alkyd [insert gloss level] finish.
INT 4.1F	Epoxy (tile like) finish. [for smooth concrete]
INT 4.1G	Epoxy-modified latex finish. [for smooth surfaces]
INT 4.1H	Multicolor finish.
INT 4.1J	water repellent , clear (paintable) finish.
INT 4.1K	Polyurethane, clear (2 component) finish.
INT 4.1L	High performance architectural latex [insert gloss level] finish.
INT 4.1M	Institutional low odor / low VOC [insert gloss level] finish.

.6 **Concrete Masonry Units:** (smooth and split face block and brick)

INT 4.2A	Latex [insert gloss level] finish.
INT 4.2B	Latex [insert gloss level] [insert texture type] aggregate coating.
INT 4.2C	Alkyd [insert gloss level] finish.

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|----------|--|
| INT 4.2D | High performance architectural latex [insert gloss level] finish.          |
| INT 4.2E | Institutional low odor / low VOC [insert gloss level] finish.              |
| INT 4.2F | Epoxy (tile-like) finish. [for dry environments]                           |
| INT 4.2G | Epoxy (tile-like) finish. [for wet environments]                           |
| INT 4.2H | Multicolor finish.   |
| INT 4.2J | Epoxy-modified latex finish. [for dry environments].                       |
| INT 4.2K | Water based light industrial [insert gloss level] coating.                 |
| INT 4.2L | Water repellent (non-paintable) finish. [do not use on light weight block] |
| INT 4.2M | Water repellent (paintable) finish. [do not use on light weight block]     |
| INT 4.2N | Alkyd [insert gloss level] finish (over latex sealer).                     |
- .7 **Structural Steel and Metal Fabrications:** (columns, beams, joists, etc.)
- |           |  |
|-----------|--|
| INT 5.1A  | Quick dry enamel [gloss] [semi-gloss] finish.  |
| INT 5.1B  | Water based light industrial [insert gloss level] coating.                               |
| INT 5.1C  | Water based dry fall finish.   |
| INT 5.1CC | Water based dry fall finish (over quick dry shop primer). [for dry locations only]       |
| INT 5.1D  | Alkyd dry fall finish.   |
| INT 5.1DD | Alkyd dry fall finish (over quick dry shop primer). [for dry locations only]             |
| INT 5.1E  | Alkyd [insert gloss level] finish.   |
| INT 5.1F  | Polyurethane, pigmented finish (over epoxy primer).                                      |
| INT 5.1G  | Polyurethane, pigmented finish (over high-build epoxy).                                  |
| INT 5.1H  | Polyurethane, pigmented finish (over inorganic zinc primer and epoxy).                   |
| INT 5.1J  | Polyurethane, pigmented finish (over epoxy zinc rich primer and epoxy).                  |
| INT 5.1K  | Epoxy-modified latex finish.   |
| INT 5.1L  | Epoxy finish.  |
| INT 5.1LL | Epoxy Deck Coating finish (over epoxy primer).   |
| INT 5.1M  | Aluminum paint finish.   |
| INT 5.1N  | Water based light industrial [insert gloss level] coating (over epoxy primer).           |
| INT 5.1P  | High build epoxy (over epoxy zinc rich primer).  |
| INT 5.1Q  | Latex [insert gloss level] finish (over alkyd primer).                                   |
| INT 5.1R  | High performance architectural latex [insert gloss level] finish.                        |
| INT 5.1S  | Institutional low odor / low VOC [insert gloss level] finish.                            |
| INT 5.1T  | Alkyd [insert gloss level] finish (over surface tolerant primer).                        |
| INT 5.1U  | Polyurethane, pigmented finish (over self-priming epoxy).                                |
| INT 5.1V  | Epoxy finish (over self-priming epoxy).  |
| INT 5.1W  | Alkyd [insert gloss level] finish (over quick dry shop primer). [for dry locations only] |
| INT 5.1X  | Latex [insert gloss level] finish (over quick dry shop primer). [for dry locations only] |
| INT 5.1Z  | Quick dry shop paint finish (for dry locations only). [do not topcoat]                   |
- .8 **Steel - High Heat:** (boilers, furnaces, heat exchangers, breeching, pipes, flues, stacks, etc., with temperature range as noted)
- |          |  |
|----------|--|
| INT 5.2A | Heat resistant enamel finish, maximum 400° F (205° C).                 |
| INT 5.2B | Heat resistant enamel, aluminum paint finish, maximum 800° F (427° C). |
| INT 5.2C | Inorganic zinc rich coating, maximum 750° F (400° C).                  |
| INT 5.2D | High heat resistant coating, maximum 1100° F (593° C).                 |
- .9 **Galvanized Metal:** (doors, frames, railings, misc. steel, pipes, overhead decking, ducts, etc.)
- |          |  |
|----------|--|
| INT 5.3A | Latex [insert gloss level] finish.   |
| INT 5.3B | Water based light industrial [insert gloss level] coating.                     |
| INT 5.3C | Alkyd [insert gloss level] finish (over cementitious primer).                  |
| INT 5.3D | Epoxy finish (over epoxy primer).  |
| INT 5.3E | Epoxy finish (over vinyl wash primer and epoxy primer).                        |
| INT 5.3F | Alkyd dry fall finish. [for use on low contact / low traffic areas only]       |
| INT 5.3G | Aluminum paint finish.   |
| INT 5.3H | Water based dry fall finish. [for use on low contact / low traffic areas only] |
| INT 5.3J | Latex [insert gloss level] finish (over water based primer).                   |
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- INT 5.3K Water based light industrial [insert gloss level] coating (over water based primer).  
INT 5.3L Alkyd [insert gloss level] finish (over non-cementitious primer).  
INT 5.3M High performance architectural latex [insert gloss level] finish.  
INT 5.3N Institutional low odor / low VOC [insert gloss level] finish.
- .10 **Aluminum:** (unanodized)
- INT 5.4A Alkyd (over vinyl wash primer) [insert gloss level] finish.  
INT 5.4B Epoxy finish.  
INT 5.4C Polyurethane, pigmented finish.  
INT 5.4D Aluminum paint finish. [for exposed aluminum]  
INT 5.4E Water based light industrial [insert gloss level] coating.  
INT 5.4F High performance architectural latex [insert gloss level] finish.  
INT 5.4G Institutional low odor / low VOC [insert gloss level] finish.  
INT 5.4H Latex [insert gloss level] finish.  
INT 5.4J Alkyd [insert gloss level] finish (over quick dry primer).
- .11 **Copper:**
- INT 5.5A Alkyd [insert gloss level] finish.  
INT 5.5B Epoxy finish.  
INT 5.5C Polyurethane, pigmented finish.  
INT 5.5D Aluminum paint finish.  
INT 5.5E Water based light industrial [insert gloss level] coating.  
INT 5.5F High performance architectural latex [insert gloss level] finish.  
INT 5.5G Institutional low odor / low VOC [insert gloss level] finish.  
INT 5.5H Latex [insert gloss level] finish.
- .12 **Stainless Steel:** (unpolished)
- INT 5.6A Water based light industrial [insert gloss level] coating (over bonding primer).  
INT 5.6B Alkyd [insert gloss level] finish.  
INT 5.6C Epoxy finish.  
INT 5.6D Polyurethane, pigmented finish.  
INT 5.6E Aluminum paint finish.  
INT 5.6F Water based light industrial [insert gloss level] coating (over quick dry primer).  
INT 5.6G High performance architectural latex [insert gloss level] finish.  
INT 5.6H Latex [insert gloss level] finish.
- .13 **Glue Laminated Beams and Columns:**
- INT 6.1A Latex [insert gloss level] finish (over alkyd primer).  
INT 6.1B Alkyd [insert gloss level] finish.  
INT 6.1C Alkyd varnish [insert gloss level] finish.  
INT 6.1D Polyurethane varnish [insert gloss level] finish.  
INT 6.1E Polyurethane, pigmented [insert gloss level] finish.  
INT 6.1F Water based varnish, clear [insert gloss level] finish.  
INT 6.1G Semi transparent stain finish.  
INT 6.1H Alkyd solid color stain finish.  
INT 6.1J Polyurethane varnish [gloss] [satin] finish (over stain).  
INT 6.1K Alkyd varnish [insert gloss level] finish (over stain).  
INT 6.1L Epoxy finish.  
INT 6.1M Latex [insert gloss level] finish (over latex primer).  
INT 6.1N High performance architectural latex [insert gloss level] finish.  
INT 6.1P Alkyd varnish [insert gloss level] finish (over stain and sealer).  
INT 6.1Q Institutional low odor / low VOC [insert gloss level] finish.  
INT 6.1R Water based varnish, clear [insert gloss level] finish (over stain).  
INT 6.1S Polyurethane, clear, moisture cured [gloss] [flat] finish (over stain).  
INT 6.1T Latex solid color stain finish.  
INT 6.1U Fire retardant, pigmented coating [insert gloss level] (ULC rated).
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- INT 6.1V Fire retardant, clear coating [insert gloss level] (ULC rated).
- .14 **Dimension Lumber:** (columns, beams, exposed joists, underside of decking, etc.)
- INT 6.2A Latex [insert gloss level] finish (over alkyd primer).  
INT 6.2B High performance architectural latex [insert gloss level] finish.  
INT 6.2C Alkyd [insert gloss level] finish.  
INT 6.2D Latex [insert gloss level] finish (over latex primer).  
INT 6.2E Multicolor finish.  
INT 6.2F Fire retardant, pigmented [insert gloss level] coating (ULC rated).  
INT 6.2G Fire retardant, clear [insert gloss level] coating (ULC rated).  
INT 6.2H Polyurethane varnish [insert gloss level] finish.  
INT 6.2J Polyurethane varnish [insert gloss level] finish (over stain).  
INT 6.2K Alkyd varnish [insert gloss level] finish (over stain and sealer).  
INT 6.2L Institutional low odor / low VOC [insert gloss level] finish.  
INT 6.2M Water based varnish, clear [insert gloss level] finish (over stain).  
INT 6.2N Polyurethane, clear, moisture cured [gloss] [flat] finish (over stain).  
INT 6.2P Alkyd varnish [insert gloss level] finish.
- .15 **Dressed Lumber:** (including doors, door and window frames, casings, molding, etc.)
- INT 6.3A High performance architectural latex [insert gloss level] finish.  
INT 6.3B Alkyd [insert gloss level] finish.  
INT 6.3BB Alkyd, water based gloss finish. [interior doors and frames in non-humid locations only]  
INT 6.3C Semi-transparent stain finish. [do not use on doors]  
INT 6.3D Alkyd varnish [insert gloss level] finish (over stain).  
INT 6.3E Polyurethane varnish [insert gloss level] finish (over stain).  
INT 6.3F Lacquer [insert gloss level] finish (over stain).  
INT 6.3G Lacquer, pigmented [insert gloss level] finish.  
INT 6.3H Lacquer, clear [insert gloss level] finish.  
INT 6.3J Alkyd varnish [insert gloss level] finish.  
INT 6.3K Polyurethane varnish [insert gloss level] finish.  
INT 6.3L Epoxy finish.  
INT 6.3M Danish oil finish.  
INT 6.3N Multicolor finish.  
INT 6.3P Water based light industrial [insert gloss level] coating.  
INT 6.3Q Water based varnish, clear [insert gloss level] finish.  
INT 6.3R Fire retardant, pigmented [insert gloss level] finish (ULC rated).  
INT 6.3S Fire retardant, clear finish (ULC rated).  
INT 6.3T Latex [semi-gloss] [gloss] finish (over latex primer).  
INT 6.3U Latex [semi-gloss] [gloss] finish (over alkyd primer).  
INT 6.3V Institutional low odor / low VOC [insert gloss level] finish.  
INT 6.3W Water based varnish, clear [insert gloss level] finish (over stain).  
INT 6.3X Polyurethane, clear, moisture cured [gloss] [flat] finish.  
INT 6.3Y Polyurethane, clear, moisture cured [gloss] [flat] finish (over stain).  
INT 6.3Z Polyurethane, clear, 2 component finish.
- .16 **Wood Paneling and Casework:** (partitions, panels, shelving, millwork, etc.)
- INT 6.4A Latex [insert gloss level] finish (over alkyd sealer).  
INT 6.4B Alkyd [insert gloss level] finish (over alkyd sealer).  
INT 6.4C Semi-transparent stain finish.  
INT 6.4D Alkyd varnish [insert gloss level] finish (over stain).  
INT 6.4E Polyurethane varnish [insert gloss level] finish (over stain).  
INT 6.4F Lacquer [insert gloss level] finish (over stain).  
INT 6.4G Alkyd varnish [insert gloss level] finish.  
INT 6.4H Lacquer, pigmented [insert gloss level] finish.  
INT 6.4J Polyurethane varnish [insert gloss level] finish.  
INT 6.4K Danish oil finish.  
INT 6.4L Multicolor finish.
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|----------|--|
| INT 6.4M | Water based, varnish clear [insert gloss level] finish.                |
| INT 6.4N | Water based light industrial [insert gloss level] coating.             |
| INT 6.4P | Fire retardant, pigmented [insert gloss level] coating (ULC rated).    |
| INT 6.4Q | Fire retardant, clear coating (ULC rated).                             |
| INT 6.4R | Latex [semi-gloss] [gloss] finish (over latex primer).                 |
| INT 6.4S | High performance architectural latex [insert gloss level] finish.      |
| INT 6.4T | Institutional low odor / low VOC [insert gloss level] finish.          |
| INT 6.4U | Water based varnish, clear [insert gloss level] finish (over stain).   |
| INT 6.4V | Polyurethane, clear moisture cured [gloss] [flat] finish (over stain). |
| INT 6.4W | Lacquer [insert gloss level] finish (over stain).                      |
| INT 6.4X | Lacquer, pigmented [insert gloss level] finish.                        |
| INT 6.4Y | Lacquer, clear [insert gloss level] finish.                            |
- .17 **Wood Floors and Stairs:** (including hardwood flooring, etc.)
- |          |   |
|----------|---|
| INT 6.5A | Alkyd floor enamel [low gloss] [gloss] finish.            |
| INT 6.5B | Polyurethane varnish [gloss] finish (over stain).         |
| INT 6.5C | Polyurethane varnish [gloss] finish.                      |
| INT 6.5E | Alkyd game line marking.                                  |
| INT 6.5F | Epoxy game line marking.                                  |
| INT 6.5G | Latex porch and floor [low gloss] [gloss] enamel finish.  |
| INT 6.5J | Polyurethane, moisture cured [gloss] finish (over stain). |
| INT 6.5K | Polyurethane, moisture cured [gloss] finish.              |
| INT 6.5M | Polyurethane, clear, 2 component finish.                  |
- .18 **Wood Shingles and Shakes:** (wall covering)
- |          |   |
|----------|---|
| INT 6.6A | Latex [insert gloss level] finish.                                  |
| INT 6.6B | Alkyd [insert gloss level] finish.                                  |
| INT 6.6C | Semi-transparent stain finish.                                      |
| INT 6.6D | Alkyd solid color stain finish.                                     |
| INT 6.6E | Latex solid color stain finish.                                     |
| INT 6.6F | Latex [insert gloss level] finish (over latex primer).              |
| INT 6.6G | Fire retardant, pigmented [insert gloss level] coating (ULC rated). |
| INT 6.6H | Fire retardant, clear [insert gloss level] coating (ULC rated).     |
- .19 **Fiberglass:** (panels, trims, fabrications, etc.)
- |          |   |
|----------|---|
| INT 6.7A | Latex [insert gloss level] finish.                                |
| INT 6.7B | Alkyd [insert gloss level] finish.                                |
| INT 6.7C | Water based light industrial [insert gloss level] coating.        |
| INT 6.7D | Epoxy finish.   |
| INT 6.7E | Polyurethane, pigmented finish.                                   |
| INT 6.7F | Epoxy-modified latex [insert gloss level] finish.                 |
| INT 6.7G | Multicolor finish.  |
| INT 6.7H | High performance architectural latex [insert gloss level] finish. |
| INT 6.7J | Institutional low odor / low VOC [insert gloss level] finish.     |
- .20 **Plastic:** (lumber, panels, trims, fabrications, vinyl wall covering, PVA / PVC materials, etc.)
- |          |   |
|----------|---|
| INT 6.8A | High performance architectural latex [insert gloss level] finish. |
| INT 6.8B | Alkyd [insert gloss level] finish.                                |
| INT 6.8C | Water based light industrial [insert gloss level] coating.        |
| INT 6.8D | Multicolor finish.  |
| INT 6.8E | Latex [insert gloss level] finish.                                |
| INT 6.8F | Institutional low odor / low VOC [insert gloss level] finish.     |
- .21 **Spray Textured Surfaces:** (ceilings)
-

INT 9.1A	Latex, flat finish [for spray application only].
INT 9.1B	Latex [insert gloss level] finish (over alkyd sealer).
INT 9.1C	Alkyd, flat finish.
INT 9.1D	Alkyd [insert gloss level] finish (over alkyd sealer).
INT 9.1E	Latex finish. [for spray application only]

.22 **Plaster and Gypsum Board:** (gypsum wallboard, drywall, "sheet rock type material", etc., and textured finishes)

INT 9.2A	Latex [insert gloss level] finish (over latex sealer).
INT 9.2B	High performance architectural latex [insert gloss level] finish.
INT 9.2C	Alkyd [insert gloss level] finish (over latex sealer).
INT 9.2E	Epoxy (tile-like) finish.
INT 9.2F	Epoxy-modified latex (tile-like) finish.
INT 9.2G	Multicolor finish.
INT 9.2H	Fire retardant coating [clear or pigmented] (ULC rated).
INT 9.2J	Water based fire retardant coating (ULC rated).
INT 9.2K	Latex [insert gloss level] finish (over alkyd primer). [use on plaster surfaces only]
INT 9.2L	Water based light industrial [insert gloss level] coating.
INT 9.2M	Institutional low odor / low VOC [insert gloss level] finish.

.23 **Acoustic Panels and Tiles:**

INT 9.3A	Latex, flat finish.
INT 9.3B	Latex [insert gloss level] finish (over alkyd sealer).
INT 9.3C	Alkyd, flat finish.
INT 9.3D	Institutional low odor / low VOC [insert gloss level] finish.
INT 9.3E	High performance architectural latex [insert gloss level] finish.

.24 **Canvas and Cotton Coverings:**

INT 10.1A	Latex [insert gloss level] finish.
INT 10.1B	Alkyd [insert gloss level] finish.
INT 10.1C	Aluminum paint finish.
INT 10.1D	Institutional low odor / low VOC [insert gloss level] finish.

.25 **Bituminous Coated Surfaces:** (cast iron pipe, concrete, etc.)

INT 10.2A	Latex [insert gloss level] finish.
INT 10.2B	Alkyd [insert gloss level] finish.
INT 10.2C	Aluminum paint finish.

**3.5 Mechanical / Electrical Equipment and Related Surfaces:**

- .1 Unless otherwise specified or noted, paint all "unfinished" conduits, piping, hangers, ductwork and other mechanical and electrical equipment with color and texture to match adjacent surfaces, in the following areas:
  - .a where exposed-to-view in all exterior and interior areas.
  - .b in all interior high humidity interior areas.
  - .c in all boiler room, mechanical and electrical rooms.
- .2 In unfinished areas leave exposed conduits, piping, hangers, ductwork and other mechanical and electrical equipment in original finish and touch up scratches and marks. Do not paint over nameplates.
- .3 Paint the inside of all ductwork where visible behind louvers, grilles and diffusers beyond sight line with primer and one coat of matt black (non-reflecting) paint. Paint the inside of light valances gloss white.
- .4 Refer to Mechanical and Electrical specifications for painting, banding, stenciling of other surfaces / equipment.

**3.6 Field Quality Control:**

- .1 Painted surfaces shall be considered to lack uniformity and soundness in accordance with defects noted in the *MPI* Painting Manual. Refer to long form specification item 3.7 - Field Quality Control / Standard of Acceptance.
- .3 Painted surfaces rejected by the inspector shall be made good at the expense of the Contractor in accordance with *MPI* Painting Manual requirements.

**3.8 Protection and Clean-Up:**

- .1 Protect all newly painted exterior surfaces from elements condensation and contamination until paint coatings are completely dry. Erect barriers or screens and post signs to warn of or limit or direct traffic.
- .2 Remove all spilled, splashed, splattered or over sprayed paint as work progresses, remove waste materials and keep area free from an unnecessary accumulation of tools, equipment, surplus materials and debris.

**END OF SECTION**