
PART 1 - GENERAL

SPEC NOTE:

- .1 Use this specification section when a comprehensive specification is required to specify repainting over previously painted or finished interior surfaces.
- .2 Review all requirements noted herein and carefully choose those that meet project requirements. The Specifier must choose one item from a series of items surrounded with [..] brackets and delete the remainder, including all SPEC NOTES. Items surrounded with (..) brackets are additional information / comments that should be left in the specification.
- .3 Adding or deleting items in this specification must be done with care and caution. The onus of doing so rests with the Specifier who must have a complete and thorough understanding of what is required. Where additional information must be added to this specification the Specifier must ensure that such information is not only accurate but also in accordance with **MPI** requirements.
- .4 The Owner or Consultant shall provide a list of surfaces to be repainted as well as the degree of surface deterioration (DSD) of each surface based on MPI DSD descriptions and assigned ratings and shall issue this information to painters bidding the work. Discrepancies between these surface ratings and painter's site reviews shall be resolved prior to Bid submission.

1.1 Description:

SPEC NOTE: This article (1.1) is not intended to scope interior repainting 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 repainting subcontract. The extent of this section of Work is also governed by the limits of local trade agreements and conditions. This article should be used in conjunction with 1.2, Related Sections.

- .1 Section Includes: All labor, materials, tools and other equipment, services and supervision required to complete all interior repainting work as indicated on Finish Schedules and to the full extent of the drawings and specifications.
- .2 Work under this Contract shall also include, but not necessarily be limited to:

SPEC NOTES:

- .1 Delete, revise or add to example selections listed below as required.
- .2 As a general note, where specification numbers are referenced throughout this repainting specification, they should be revised as required by the specifier to suit project specification section number requirements (preferably in accordance with the latest version of the MasterFormat numbering system) and/or where other pertinent specification sections are impacted by work of this section, their numbers should be appropriately inserted as required.
 - .a Moisture testing of substrates.
 - .b Surface preparation of substrates as required for acceptance of paint, including cleaning, small crack repair, patching, caulking, and making good surfaces and areas to the limits defined under **MPI Repainting Manual** Preparation requirements.
 - .c Specific pre-treatments noted herein or specified in the **MPI** Repainting Manual.
 - .d Sealing / priming surfaces for repainting in accordance with **MPI** Repainting Manual requirements.
 - .e Provision of safe and adequate ventilation as required over and above temporary ventilation supplied by others, where toxic and/or volatile / flammable materials are being used.
- .3 Refer to drawings and schedules (e.g., Finish Schedule) for type, location and extent of interior repainting required, and include all touch-ups necessary to complete work shown, scheduled or specified.
- .4 This Section along with the drawings forms part of the Contract documents and is to be read, interpreted and coordinated with all other parts.
- .5 Division 0, Section 00700 - General Conditions and Section 00800 - Supplementary Conditions and Division 1, General Requirements form an integral part of this Section of Work. The Painting contractor shall refer to these and all other related parts.

SPEC NOTE: Clauses 1.1.4 and 1.1.5 above may be deleted or revised as required to suit specification and/or form of Contract requirements.

1.2 Related Sections:

- .1 Unless otherwise noted, the following work or conditions are not included under this Section of work:

SPEC NOTES:

- .1 *Delete, revise or add to example selections listed below as required. Also list here any specific exclusions normally assumed to be part of repainting work. Coordinate items with other Sections of Work in the Project Manual.*
- .2 *Work included in other sections may be indicated by listing appropriate sections as below:*
- Section 01500 - Temporary Facilities and Controls
 - Section 09720 - Wall Coverings
 - Section 09900 - Painting (new surfaces)
 - Section 09915 - Exterior Repainting
 - Section [03300] [09945] - Abrasive Blasting
- .3 *Alternately, work included in other sections may be indicated by general statements as below:*
- .a Temporary heat and light, scaffolding and platforms and housekeeping services.
 - .b Condition of substrates, correction of DSD-4 defects and deficiencies in substrates which may adversely affect repainting work, except for minimal work performed by this trade and preparation of surfaces to receive paint and finishes under this section of work.
 - .c Wall coverings.
 - .d Painting of new surfaces.
 - .e Repainting of exterior surfaces.

1.3 Quality Assurance:

- .1 This Contractor shall have a minimum of five (5) years proven satisfactory experience and shall show proof before commencement of work that he will maintain a qualified crew of painters throughout the duration of the work. When requested, Contractor shall provide a list of the last three comparable interior repainting jobs including, name, location, specifying authority / project manager, start / completion dates and value of the work.
- .2 Only qualified journeypersons, as defined by local jurisdiction, shall be engaged in exterior repainting 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 the standards contained in the latest edition of the Master Painters Institute (**MPI**) Maintenance and Repainting Manual (herein referred to as the **MPI** Repainting Manual).
- .4 All interior repainting work shall be inspected by a Paint Inspection Agency (inspector) acceptable to the specifying authority. 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.
- .5 **All surfaces requiring repainting shall be inspected** by the Painting Subcontractor who shall notify the Consultant, Paint Inspection Agency, and General Contractor in writing of any defects or problems, prior to commencing repainting or after preparation work.
- .6 Where "special" coatings or decorating systems (i.e. textured coatings or non-**MPI** listed products or systems) are to be used in repainting, the paint manufacturer shall provide as part of this work, certification of all surfaces and conditions for specific paint or coating system application as well as on site supervision, inspection and approval of their paint or coating system application as required at no additional cost to the Owner.

SPEC NOTE: *Use the above clause (1.3.6) only when special paint or coating systems are used on a project and/or when the involvement of the specific paint / coating manufacturer is warranted. This requirement should be clarified with the manufacturer before such a clause is incorporated into the specification.*

1.4 Regulatory Requirements:

- .1 Conform to work place safety regulations for storage, mixing, application and disposal of all paint related materials to requirements of those authorities having jurisdiction.
- .2 Conform to safety precautions in accordance with the latest requirements to Industrial Health and Safety Regulations, latest edition, of authorities having jurisdiction.
- .3 Notify the Paint Inspection Agency on award of contract and make application for assignment of an Inspector using appropriate forms supplied by the Agency as well as provide a copy of the project repainting specification, drawings, color schedule and list of proposed materials for review purposes prior to commencement of work.
- .4 Fully cooperate at all times with the requirements of the Paint Inspection Agency in the performance of their duties, including providing access and assistance as required to complete inspection work.
- .5 To reduce the amount of contaminants entering waterways, sanitary / storm drain systems or into the ground the following procedures shall be strictly adhered to:
 - .a Retain cleaning water for water-based materials to allow sediments to be filtered out. In no case shall equipment be cleaned using free draining water.
 - .b Retain cleaners, thinners, solvents and excess paint and place in designated containers and ensure proper disposal.
 - .c Return solvent and oil-soaked rags used during painting operations for contaminant recovery, proper disposal, or appropriate cleaning and laundering.
 - .d Dispose of contaminants in an approved legal manner in accordance with hazardous waste regulations.
 - .e Empty paint cans are to be dry prior to disposal or recycling (where available).
 - .f Close and seal tightly partly used cans of materials including sealant and adhesive containers and store protected in well ventilated fire-safe area at moderate temperature.
- .6 Where paint recycling is available, collect waste paint by type and provide for delivery to recycling or collection facility.

1.5 Mock-Ups:

- .1 When requested by the Consultant or Paint Inspection Agency, prepare and repaint a designated interior surface, area, room or item to requirements specified herein, with specified paint or coating showing selected colors, gloss / sheen, texture and workmanship to **MPI** Repainting Manual standards for review and approval. When approved, interior surface, area, room and/or items shall become acceptable standard of finish quality and workmanship for similar on-site repainting work.

1.6 Submittals:

- .1 All submittals shall be in accordance with the requirements of Section 01300 - Submittals.
- .2 Submit written proof of ability to supply a 100% two (2) year Maintenance Bond, if Paint Association warranty option is not used with Bid Submission.
- .3 Submit list of all painting materials to the Consultant and the Paint Inspection Agency for review prior to ordering materials.
- .4 Submit two sets of Material Safety Data Sheets (MSDS) prior to commencement of work for review and for posting at job site as required.
- .5 Submit invoice list of all paint materials ordered for project work to Paint Inspection Agency indicating manufacturer, types and quantities for verification and compliance with specification and design requirements if requested.

- .6 When repainting occupied areas, submit work schedule for various stages of work for the Consultant's review and Owner's approval if requested.
- .7 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.
- .8 At project completion provide properly packaged maintenance materials as noted herein and obtain a signed receipt.

1.7 Product Delivery, Storage and Handling:

- .1 Deliver 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.
- .2 Store all paint materials in original labeled containers in a secure (lockable), dry, heated and well ventilated single designated area meeting the minimum requirements of both paint manufacturer and authorities having jurisdiction and at a minimum ambient temperature of 45° F (7° C). Only material used on this project to be stored on site.
- .3 Where toxic and/or volatile / explosive / flammable materials are being used, provide adequate fireproof storage lockers and take all necessary precautions and post adequate warnings (e.g. no smoking) as required.
- .4 Take all necessary precautionary and safety measures to prevent fire hazards and spontaneous combustion and to protect the environment from hazard spills. Materials that constitute a fire hazard (paints, solvents, drop clothes, etc.) shall be stored in suitable closed and rated containers and removed from the site on a daily basis.

SPEC NOTE: *Painting Subcontractor to be provided with adequate storage facilities meeting above requirements by General Contractor.*

- .5 Comply with requirements of authorities having jurisdiction, in regard to the use, handling, storage and disposal of hazardous materials.

1.8 Project / Site Requirements:

- .1 UNLESS specifically pre-approved by the specifying body, Paint Inspection Agency and the applied product manufacturer, perform no interior repainting work when interior ambient air and substrate temperatures and humidity level exceeds manufacturer's stated limits.
- .2 Perform no interior repainting work unless adequate continuous ventilation and sufficient heating facilities are in place to maintain minimum ambient air and substrate temperatures for 24 hours before, during and after paint application. Provide supplemental ventilating and heating equipment if ventilation and heating from existing system is inadequate to meet minimum requirements. Because of moisture generation and potential fire hazard, the use of gas fired heating units is not advised, unless otherwise approved by the Owner / Consultant and authorities having jurisdiction.
- .3 Test suspect surfaces (concrete, masonry, plaster and wood surfaces) for moisture and alkalinity as required. Conduct all moisture tests using a properly calibrated electronic Moisture Meter, except test concrete floors for moisture using a simple "cover patch test". The maximum moisture shall not exceed:
 - .a 15% for wood.
 - .b 12 % for plaster and gypsum board.
- .4 Perform no repainting work unless a minimum lighting level of 323 Lux (30-foot candles) is provided on surfaces to be repainted. Adequate lighting facilities shall be provided by the General Contractor.
- .5 Apply paint only to dry, clean, 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.

1.9 Scheduling:

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

- .1 Schedule interior repainting operations to prevent disruption of and by other trades when applicable.
- .2 Schedule interior repainting operations to prevent disruption of occupants in and about the building. Obtain written authorization from Consultant / Owner for changes in work schedule.
- .3 Repainting in occupied facilities to be carried out during hours in accordance with Owner's operating requirements (during silent hours)(on weekends). Schedule work such that painted surfaces will have dried before occupants are affected.
- .4 Phasing of work shall be in accordance with the requirements of Sections 01010 - Summary of Work and/or 01060 - Special and Regulatory Requirements.

1.10 Guarantee:

- .1 Furnish a [one (1)] [two (2)] year Painting Association Guarantee or a 100% [one (1)] [two (2)] year Maintenance Bond both in accordance with **MPI** Repainting Manual requirements. The Maintenance Bond shall be obtained from an approved bonding company and shall warrant that all repainting work has been performed in accordance with **MPI** Repainting Manual requirements.

SPEC NOTE: *Provide a one (1) year Guarantee or one (1) year Maintenance Bond for Budget Grade work and a two (2) year Guarantee or two (2) year Maintenance Bond for Premium Grade work.*

- .2 All interior repainting work shall be in accordance with **MPI** Repainting Manual requirements and shall be inspected by the Painting Association whether using the Painting Association Guarantee or the Maintenance Bond option. The cost for such Painting Association inspections as well as either the Painting Association Guarantee or Maintenance Bond shall be included in the Base Bid Price.
- .3 Painting Subcontractors choosing the Maintenance Bond option shall provide written proof of their ability to supply same at time of bidding.

1.11 Maintenance Materials:

- .1 At project completion provide [a minimum of [4 liters (1 gallon)]] of each type and color of paint from same production run (batch mix) used in unopened cans, properly labeled and identified for Owner's later use in maintenance. Store where directed.

PART 2 - PRODUCTS

2.1 Materials:

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

- .1 All materials (primers, paints, coatings, varnishes, stains, lacquers, fillers, thinners, solvents, etc.) shall be products listed in the latest edition of the **MPI** Approved Product List and shall be from a single manufacturer for each system used.
- .2 Other paint materials such as linseed oil, shellac, turpentine, etc. shall be the highest quality product of an approved manufacturer listed in the **MPI** Approved Product List and shall be compatible with other coating materials as required.
- .3 All materials and paints shall be lead and mercury free.
- .4 Where required, paint products shall meet **MPI** Environmentally Friendly" [E1] [E2] [E3] ratings based on VOC (EPA Method 24) content levels.

SPEC NOTES:

- .1 *The use of water borne versus oil-based paints and coatings requires careful evaluation. The release of VOC's and solvent vapours during painting and cleanup, particularly in confined areas and where such vapours may prove offensive to individuals in an occupied facility are a consideration, as well as the oft forgotten residue flushed down the drain during water-borne paint cleanup. Any evaluation must be carefully and dispassionately considered based on actual VOC content of the product used and that released over the life cycle term, on actual site conditions and on long-term durability and life cycle costing requirements.*
- .2 *In assessing the requirements for selection of an environmentally friendly water borne or oil-based paint product, total VOC content and life cycle / durability must be considered. Refer to MPI Approved Products Listing for the VOC content level of paint products and to the MPI website (www.paintinfo.com) for current information.*

- .5 All paint materials shall have good flowing and brushing properties and shall dry or cure free of blemishes, sags, air entrapment, etc. Refer to 3.6, Field Quality Control / Standard of Acceptance requirements.
- .6 Where required, paints and coatings shall meet flame spread and smoke developed ratings designated by local Code requirements and/or authorities having jurisdiction.

SPEC NOTE: *Insert required rating and/or testing requirements if appropriate.*

- .7 [Glass Reflective Beads (for pavement marking): of type suitable for application to a wet paint surface for light reflectance. Apply beads at a minimum rate of 0.5 kg/l (5 lbs/g) to a white and/or yellow latex or alkyd zone / traffic marking paint of approved type as listed in the **MPI** Repainting Manual.]
- .8 [Slip Resistant Additives (SRA): rubber aggregate, clean / washed silica sand or ground walnut chips for use with or as a component part of paint (usually floor / porch / stair enamel) on interior horizontal surfaces as required to provide slip resistance. Where site applied, material to either mixed into paint (and mixed constantly to keep material in suspension) or broadcast into first or prime coat as required.]

2.2 Equipment:

- .1 Painting Equipment: to best trade standards for type of product and application.
- .2 Spray-Painting Equipment: of ample capacity, suited to the type and consistency of paint or coating being applied and kept clean and in good working order at all times.

2.3 Mixing and Tinting:

- .1 Unless otherwise specified or pre-approved, all paints 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.
- .2 Paste, powder or catalyzed paint mixes shall be mixed in strict accordance with manufacturer's written instructions.
- .3 Where thinner is used, addition shall not exceed paint manufacturer's recommendations.
- .4 If required, thin paint for spraying in strict accordance with paint manufacturer's instructions. If directions are not on container, obtain instructions in writing from manufacturer and provide copy of instructions to Consultant.

2.4 Finish and Colors:

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

SPEC NOTES:

- .1 Note that Finish Schedule should include all interior painted items (e.g. walls, ceilings, floors, doors, frames, trim, base, sills, railings, etc.) and the gloss level. The paint manufacturer and color code number should also be provided if selected by the Designer.
- .2 In addition, where more than one color is used on walls within an area this shall also be scheduled.

Generally, and unless otherwise specified herein or noted on Finish Schedules the quantity of colors and finishes shall be based on the following criteria:

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 unless specifically scheduled.

SPEC NOTE: Revise number of colors and schemes to suit project requirements.

- .4 Interior colors and/or patterns shall be consistent [throughout each unit] [with [two (2)] [three (3)] separate schemes prepared.
- .5 Unless otherwise noted, repaint walls within a given area using the same color as selected.
- .6 Ceilings [including those having a spray textured coating, unless otherwise noted] shall be repainted [white] [the same color as walls].
- .7 Corridors shall be repainted [the same color on all floors] [with [two (2)] [three (3)] separate color schemes prepared for doors and trim.
- .8 Designated rooms / spaces shall be repainted using different colors or more than one color than typical rooms in accordance with Finish Schedule requirements with a minimum of [two (2)] colors required.
- .9 Except as noted herein or indicated on the Finish Schedule, walls and ceiling surfaces shall be repainted in accordance with the following criteria:
- [.a all areas (except as noted): [conventional latex with G3 finish.] [high performance or institutional latex with G2 finish.]]
 - [.b laundry facilities / rooms, public wash / shower / bathrooms, residential kitchens and bathrooms and ensuites: [latex] [alkyd] with G5 (semi-gloss) finish.]
 - [.c public change / wash / shower rooms and institutional facility bathing and shower rooms: epoxy (tile-like) G5 (semi-gloss) finish for wet surfaces.]
 - [.d public and institutional facility food preparation and sanitary areas: epoxy (tile-like) G5 (semi-gloss) finish for dry surfaces.]
- .10 [Doors shall be repainted a different color than door frames and trim with walls a different color than either] [Doors, frames and trim shall be repainted a different color than walls] [the same color as walls]. Unless otherwise noted or scheduled all doors, frames and trim shall be repainted using a G5 (semi-gloss) finish.
- .11 [Window frames (unless pre-finished) including trim and sills shall be repainted [a different color than walls] [the same color as walls] [Window frames (unless pre-finished) shall be repainted a different color than window trim and sills and a different color than walls]. Unless otherwise noted or scheduled all window frames, trim and sills shall be repainted using a G5 (semi-gloss) finish.
- .12 Access doors, registers, radiators and covers, exposed piping and electrical panels shall be repainted to match adjacent surfaces (i.e. color, texture and sheen), unless otherwise noted or where pre-finished.

- .13 Interior parking bay lines, numbers and symbols including barrier free accessible parking bays, pedestrian walkways, and refuge areas, shall be repainted white or yellow to suit existing color and/or in accordance with the requirements or authorities having jurisdiction.
- .14 Provide a slip resistant additive to interior painted stair treads where noted on the Finish Schedule or where required by authorities having jurisdiction. In addition, provide tactile warning using a slip resistant additive on painted stair landings providing access and exit for persons with visual impairment where required by authorities having jurisdiction. Painted tactile warning strips at the top of stairs shall be of a contrasting color to paint used on treads and landings.

2.5 Gloss / Sheen:

- .1 Paint gloss shall be defined as the sheen rating of applied paint, in accordance with the following **MPI** gloss / sheen standard values:

Gloss Level	Description	Units @ 60 degrees	Units @ 85 degrees
G1	Matte or Flat finish	0 to 5	10 maximum
G2	Velvet finish	10 maximum	10 to 35
G3	Eggshell finish	10 to 25	10 to 35
G4	Satin finish	20 to 35	35 minimum
G5	Semi-Gloss finish	35 to 70	
G6	Gloss finish	70 to 85	
G7	High-Gloss finish	> 85	

- .2 Gloss level ratings of all painted surfaces shall be as specified herein and as noted on Finish Schedule.

SPEC NOTES:

- .1 *A high gloss finish provides more physical and stain resistance with such painted surfaces appearing to have a "hard" finish. Such glossy finishes, however tend to enhance textures or defects of the surface to which they are applied. Use of higher gloss finishes should be reviewed from the point of view of excessive surface preparation required which might not be warranted for the surface to be coated.*
- .2 *Unless otherwise approved by the painting inspection agency having jurisdiction, the use of deep colors or high contrast accent colors will require a minimum of three or more finish coats over primer to achieve satisfactory hiding results.*
- .3 *Caution should be used when specifying deep colors in high traffic areas, regardless of the surface to which these colors are applied. Deep tinted color in a flat, eggshell, semi-gloss and to some extent high gloss finish will mar easily and leave an unsightly appearance with loss of sheen and with considerable reduction of abrasion resistance. In such cases, either a clear urethane or high-performance acrylic type of coating over such deep colors may solve the problem but may also result in a change in hue and where touch-up painting is required the entire surface will have to be redone from break to break or from corner to corner as spot touch-up will be very noticeable. Refer to **MPI** Repainting Manual.*
- .4 *Gypsum board shall be finished by others to specified levels of finish recognized by the drywall industry to suit project requirements. The specifier should be aware of the limitations of such levels of finish particularly when semi-gloss and gloss paints are applied to such surfaces. Where a smooth, high quality or gloss appearance is required over gypsum board (i.e., where semi-gloss, gloss, or non-textured flat finishes or dark colors are applied or where severe or critical lighting conditions occur) a Level 5 finish (three coats of sanded joint compound with a thin skim coat of joint compound or similar material applied to entire board surface) is recommended. The gypsum board finish is to be assessed by the drywall applicator for imperfections prior to the application of paint finishes. The specifier is to ensure that the appropriate levels of gypsum board finishes are specified to suit expected (painted) finish appearances.*

PART 3 - EXECUTION

3.1 Condition of Surfaces:

- .1 Prior to commencement of repainting work, thoroughly examine (and test as required) all interior conditions and surfaces scheduled to be repainted and report in writing to the [Consultant] [Owner] [and General Contractor where applicable] any conditions or surfaces that will adversely affect work of this section.

- .2 The degree of surface deterioration (DSD) shall be assessed using the assessment criteria indicated in the **MPI** Maintenance Repainting Manual. In general, the **MPI** DSD ratings and descriptions are as follows:

Condition	Description
DSD-0	Sound Surface (may include visual (aesthetic) defects that do not affect film's protective properties).
DSD-1	Slightly Deteriorated Surface (may show fading; gloss reduction, slight surface contamination, minor pin holes scratches, etc.) / Minor cosmetic defects (runs, sags, etc.).
DSD-2	Moderately Deteriorated Surface (small areas of peeling, flaking, slight cracking, staining, etc.).
DSD-3	Severely Deteriorated Surface (heavy peeling, flaking, cracking, checking, scratches, scuffs, abrasion, small holes and gouges).
DSD-4	Substrate Damage (repair or replacement of surface required by others).

- .3 Other than the repair of DSD-1 to DSD-3 defects included under this scope of work, structural and DSD-4 substrate defects discovered prior to and after surface preparation or after first coat of paint shall be made good and sanded by others ready for painting, unless otherwise agreed to by the Owner and painter to be included in this Work.
- .4 No repainting work shall commence until all such DSD-4 adverse conditions and defects have been corrected and surfaces and conditions are acceptable to the Painting Subcontractor. The Painting Subcontractor shall not be responsible for the condition of the substrate or for correcting defects and deficiencies in the substrate, which may adversely affect the painting work except for minimal work normally performed by the Painting Subcontractor and as, indicated herein. It shall always, however, be the responsibility of the Painting Subcontractor to see that surfaces are properly prepared before any paint or coating is applied. It shall also be the Painting Subcontractor's responsibility to paint the surface as specified providing that the owner accepts responsibility for uncorrected DSD-4 substrate conditions.

3.2 Preparation of Surfaces:

- .1 Prepare all interior surfaces for repainting in accordance with **MPI** Repainting Manual requirements. Refer to the **MPI** Repainting Manual in regard to specific requirements for the following:

SPEC NOTE: Delete following items that are not required.

- .a environmental conditions.
- .b pH testing.
- .c acid etching.
- .d rust stain removal.
- .e mildew removal.
- .f asphalt surfaces.
- .g vertical and horizontal concrete surfaces.
- .h clay and concrete masonry units.
- .i structural steel and miscellaneous metals.
- .j steel exposed to high heat.
- .k galvanized and zinc coated metal.
- .l aluminum and copper surfaces.
- .m glue laminated beams and columns.
- .n dimension and dressed lumber.
- .o wood doors.
- .p wood paneling and casework.
- .q wood decks, floors, stairs and steps.
- .r wood shingles and shakes.
- .s stucco, plaster and gypsum board.
- .t acoustical panels and tiles.
- .u canvas and cotton coverings.

- .v bituminous coated surfaces.
- .2 Sand, clean, dry, etch, neutralize and/or test all surfaces under adequate illumination, ventilation and temperature requirements.
- .3 Remove and securely store all miscellaneous hardware and surface fittings / fastenings (e.g. electrical plates, mechanical louvers, door and window hardware (e.g. hinges, knobs, locks, trim, frame stops), removable rating / hazard / instruction labels, washroom accessories, light fixture trim, etc. from wall and ceiling surfaces, doors and frames, prior to repainting and replace upon completion. Carefully clean and replace all such items upon completion of repainting work in each area. Do not use solvent or reactive cleaning agents on items that will mar or remove finishes (e.g. lacquer finishes). Doors shall be removed before repainting to paint bottom and top edges and then re-hung.
- .4 Protect all adjacent interior surfaces and areas, including rating and instruction labels on doors, frames, equipment, piping, etc., from repainting operations and damage by drop cloths, shields, masking, templates, or other suitable protective means and make good any damage caused by failure to provide such protection.

3.3 Application:

- .1 Do not commence repainting unless substrates are acceptable and until all environmental conditions (heating, ventilation, lighting and completion of other subtrade work, if applicable) are acceptable for applications of products.
- .2 Apply primer, paint or stain in accordance with **MPI** Painting Manual [Budget] [Premium] Grade finish requirements.
- .3 Apply primer, paint or stain in a workmanlike manner using skilled and trade qualified applicators as noted under Quality Assurance.
- .4 Apply primer, paint or stain within an appropriate time frame after cleaning when environmental conditions encourage flash-rusting, rusting, contamination or the manufacturer's paint specifications require earlier applications.
- .5 Primer, paint or stain coats specified are intended to cover surfaces satisfactorily when applied at proper consistency and in accordance with manufacturer's recommendations.
- .6 Tint each coat of paint progressively lighter to enable confirmation of number of coats.
- .7 Unless otherwise approved by the painting inspection agency, apply a minimum of four coats of paint where deep or bright colors are used to achieve satisfactory results.

SPEC NOTE: *Refer to Spec Notes at beginning of 2.5 in regard to the use of deep colors.*

- .8 Sand and dust between each coat to provide an anchor for next coat and to remove defects in previous coat (runs, sags, etc.) visible from a distance up to 1000 mm (39").
- .9 Do not apply finishes on interior surfaces that are not sufficiently dry. Unless manufacturer's directions state otherwise, each coat shall be sufficiently dry and hard before a following coat is applied.
- .10 To avoid air entrapment in applied coats, apply materials in strict accordance with manufacturer's spread rates and application requirements.

3.4 Interior Finish / Coating Systems:

PAINT SYSTEM SPEC NOTES:

- .1 *Select appropriate paint system for interior surfaces to be repainted and delete all other systems not required.*
- .2 *Insert appropriate gloss level rating (G1, G2, etc.) in place of [insert gloss level]. Refer to **MPI Approved Product Listings** to ensure that desired gloss level is available. Specific paint colors and gloss ratings should be indicated on Finish Schedule.*
- .3 *Where different finishes are required under a specific heading, a reference to applicable materials must be inserted after the finish, e.g.:*
RIN 9.2C DSD-1 Latex sealer / alkyd G5 finish for kitchens and bathroom surfaces.
RIN 9.2C DSD-2 Latex sealer / alkyd G3 finish for all other surfaces.
- .4 *Where both **MPI Budget Grade** and **Premium Grade** systems are used, indicate same on Finish Schedule or indicate specific system when it differs from the "typical" grade selected.*
- .5 *Where choice of an "Environmentally Friendly" (i.e., low odor / low VOC) or a "green" product is required, the specifier must consult **MPI Product Selection Guide** and select system / products having desired **MPI E1, E2 or E3** rating. This includes non-latex / non-water-based paints and finishes which meet EPA Method 24 / **MPI** criteria.*
- .6 *For individual product selection and evaluations refer to **MPI Repainting Manual** latest edition of the **MPI Approved Product List**.*
- .7 *For specific interior surface preparation requirements refer to the **MPI Repainting Manual**.*

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

.1 **Asphalt Surfaces:** (zone / traffic marking of interior drive and parking areas)

- RIN 2.1A Latex zone / traffic marking finish.
RIN 2.1B Alkyd zone / traffic marking finish.

SPEC NOTE: *Determine if repainting of zone / traffic or game lines on asphalt surfaces is or is not included under work of this section.*

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

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

SPEC NOTE: *The application of RIN 3.1K / RIN 3.2E, RIN 3.2F and RIN 3.2J concrete stain finish and concrete sealer to existing interior concrete surfaces requires that the concrete surfaces be clean and sound and free of previous coatings detrimental to adhesion or penetration of the stain or sealer.*

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

- RIN 3.2A Latex floor enamel [gloss] [low gloss] finish.
RIN 3.2B Alkyd floor enamel [gloss] [low gloss] finish.
RIN 3.2C Epoxy finish.
RIN 3.2D Pigmented polyurethane finish.
RIN 3.2E Concrete floor sealer.
RIN 3.2F Waterborne concrete floor sealer.
RIN 3.2G Latex zone / traffic marking finish [for parking or game court lines].
RIN 3.2H Alkyd zone / traffic marking finish [for parking or game court lines].

RIN 3.2J	Concrete stain finish.
RIN 3.2K	Clear two component polyurethane finish.

SPEC NOTES:

- .1 *Determine if repainting of zone / traffic marking on concrete surfaces is or is not included under work of this section.*
- .2 *The application of RIN 3.2G or RIN 3.2H zone / traffic marking over existing lines or existing concrete surfaces requires that the lines and concrete surfaces be clean and sound and free of previous coatings detrimental to adhesion or penetration of the new marking finish.*

.4 Cementitious Composition Board Surfaces:

RIN 3.3A	Latex [insert gloss level] finish.
RIN 3.3B	High performance architectural latex [insert gloss level] finish.
RIN 3.3C	Alkyd [insert gloss level] finish.
RIN 3.3D	Epoxy-modified latex finish.
RIN 3.3E	Epoxy finish.
RIN 3.3F	Multicolor finish.
RIN 3.3G	Institutional low odor / low VOC [insert gloss level] finish.
RIN 3.3H	Waterborne light industrial [insert gloss level] coating.

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

RIN 4.1A	Latex [insert gloss level] finish.
RIN 4.1B	Latex [insert gloss level] [insert texture type] aggregate coating.
RIN 4.1C	Waterborne light industrial [insert gloss level] coating.
RIN 4.1D	Alkyd [insert gloss level] finish.
RIN 4.1F	Epoxy finish.
RIN 4.1G	Epoxy-modified latex finish.
RIN 4.1H	Multicolor finish.
RIN 4.1J	Clear water-repellent paintable finish.
RIN 4.1K	Clear two component polyurethane finish.
RIN 4.1L	High performance architectural latex [insert gloss level] finish.
RIN 4.1M	Institutional low odor / low VOC [insert gloss level] finish.
RIN 4.1N	Water repellent, clear (non-paintable).

SPEC NOTE: *The application of water-repellent sealers to existing interior clay and concrete masonry surfaces requires that the surfaces be clean and sound and free of previous coatings detrimental to adhesion or penetration of the new sealer.*

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

RIN 4.2A	Latex [insert gloss level] finish.
RIN 4.2B	Latex [insert gloss level] [insert texture type] aggregate coating.
RIN 4.2C	Alkyd [insert gloss level] finish.
RIN 4.2D	Epoxy finish.
RIN 4.2E	Multicolor finish.
RIN 4.2F	Epoxy-modified latex finish.
RIN 4.2G	Waterborne light industrial [insert gloss level] coating.
RIN 4.2H	Water repellent, clear, non-paintable finish [for use on surfaces previously coated with a water repellent].
RIN 4.2J	Water repellent, clear, paintable finish.
RIN 4.2K	High performance architectural latex [insert gloss level] finish.
RIN 4.2L	Institutional low odor / low VOC [insert gloss level] finish.

.7 Structural Steel and Metal Fabrications: (columns, beams, joists, etc.)

RIN 5.1A	Quick dry enamel [gloss] [semi-gloss] finish.
RIN 5.1B	Waterborne light industrial [insert gloss level] coating.
RIN 5.1C	Waterborne dry fall finish.
RIN 5.1D	Alkyd dry fall finish.

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| RIN 5.1E | Alkyd [insert gloss level] finish. |
| RIN 5.1F | Pigmented polyurethane finish. |
| RIN 5.1G | Pigmented polyurethane finish (over high-build epoxy). |
| RIN 5.1H | Pigmented polyurethane finish (over epoxy). |
| RIN 5.1J | Epoxy-modified latex finish. |
| RIN 5.1K | Epoxy finish. |
| RIN 5.1L | Aluminum paint finish. |
| RIN 5.1M | Multicolor finish. |
| RIN 5.1N | Latex [insert gloss level] finish. |
| RIN 5.1P | Waterborne light industrial [insert gloss level] coating (over epoxy primer). |
| RIN 5.1Q | High build epoxy finish. |
| RIN 5.1R | High performance architectural latex [insert gloss level] finish. |
| RIN 5.1S | Institutional low odor / low VOC [insert gloss level] finish. |
- .8 **Steel - High Heat:** (boilers, furnaces, heat exchangers, breeching, pipes, flues, stacks, etc., with temperature range as noted)
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| RIN 5.2A | Heat resistant enamel finish, maximum 400° F (205° C). |
| RIN 5.2B | Heat resistant aluminum paint finish, maximum 800° F (427° C). |
| RIN 5.2C | Inorganic zinc rich coating, maximum 750° F (400° C). |
| RIN 5.2D | High heat resistant coating, maximum 1100° F (593° C). |
- .9 **Galvanized Metal:** (not chromate passivated) (for high contact / high traffic and low contact / low traffic areas as noted on doors, frames, railings, misc. steel, pipes, overhead decking, ducts, etc.)

SPEC NOTES:

- .1 *High contact/traffic areas to include doors, frames, railings, misc. steel, pipes, etc.*
- .2 *Low contact/traffic areas to include overhead decking, ducts, pipes, gutters, flashing, misc. steel, etc.*

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| RIN 5.3A | Latex [insert gloss level] finish. [do not use flat finish on doors and frames] |
| RIN 5.3B | Waterborne light industrial [insert gloss level] coating. |
| RIN 5.3C | Alkyd [insert gloss level] finish. [do not use flat finish on doors and frames] |
| RIN 5.3D | Epoxy finish. |
| RIN 5.3E | Alkyd dry fall finish [for low contact / low traffic areas only]. |
| RIN 5.3F | Aluminum paint finish. |
| RIN 5.3G | Waterborne dry fall finish [for low contact / low traffic areas only]. |
| RIN 5.3H | Pigmented polyurethane finish. |
| RIN 5.3J | High performance architectural latex [insert gloss level] finish. [do not use flat finish on doors / door frames] |
| RIN 5.3K | Institutional low odor / low VOC [insert gloss level] finish. [do not use flat finish on doors / door frames] |
| RIN 5.3 L | Quick dry enamel [gloss] [semi-gloss] finish. |
- .10 **Aluminum:** (unanoitized)
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| RIN 5.4A | Alkyd [insert gloss level] finish. |
| RIN 5.4B | Epoxy [insert gloss level] finish. |
| RIN 5.4C | Pigmented polyurethane finish. |
| RIN 5.4D | Aluminum paint finish. [for exposed aluminum] |
| RIN 5.4E | Waterborne light industrial [insert gloss level] coating. |
| RIN 5.4F | High performance architectural latex [insert gloss level] finish. |
| RIN 5.4G | Institutional low odor / low VOC [insert gloss level] finish. |
| RIN 5.4H | Latex [insert gloss level] finish. |
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- .11 **Copper:**
- RIN 5.5A Alkyd [insert gloss level] finish. [for Premium Grade only]
 - RIN 5.5B Epoxy finish.
 - RIN 5.5C Pigmented polyurethane finish.
 - RIN 5.5D Aluminum paint finish.
 - RIN 5.5E Waterborne light industrial [insert gloss level] coating.
 - RIN 5.5F High performance architectural latex [insert gloss level] finish.
 - RIN 5.5G Institutional low odor / low VOC [insert gloss level] finish.
 - RIN 5.5H Latex [insert gloss level] finish.
- .12 **Stainless Steel:** (unpolished)
- RIN 5.6A Waterborne light industrial [insert gloss level] coating (over bonding primer).
 - RIN 5.6B Alkyd [insert gloss level] finish.
 - RIN 5.6C Epoxy finish.
 - RIN 5.6D Pigmented polyurethane finish.
 - RIN 5.6E Aluminum paint finish.
 - RIN 5.6F Waterborne light industrial [insert gloss level] coating (over quick dry primer).
 - RIN 5.6G High performance architectural latex [insert gloss level] finish.
 - RIN 5.6H Latex [insert gloss level] finish.
- .13 **Glue Laminated Beams and Columns:**
- RIN 6.1A Latex [insert gloss level] finish (over alkyd primer).
 - RIN 6.1B Alkyd [insert gloss level] finish.
 - RIN 6.1C Alkyd varnish [insert gloss level] finish.
 - RIN 6.1D Polyurethane varnish [insert gloss level] finish.
 - RIN 6.1E Pigmented polyurethane [insert gloss level] finish.
 - RIN 6.1F Waterborne clear varnish [insert gloss level] finish.
 - RIN 6.1G Semi transparent stain finish.
 - RIN 6.1H Solid color stain finish.
 - RIN 6.1J Waterborne light industrial [insert gloss level] coating.
 - RIN 6.1K Epoxy finish.
 - RIN 6.1L Alkyd varnish [insert gloss level] finish (over stain).
 - RIN 6.1M Polyurethane varnish [insert gloss level] finish (over stain).
 - RIN 6.1N Fire retardant [insert gloss level] coating. (UL/ULC rated)
 - RIN 6.1P Latex [insert gloss level] finish (over latex primer).
 - RIN 6.1Q High performance architectural latex [insert gloss level] finish.
 - RIN 6.1R Institutional low odor / low VOC [insert gloss level] finish.
 - RIN 6.1S Waterborne clear varnish [insert gloss level] finish (over stain).
 - RIN 6.1T Clear moisture cured polyurethane [gloss] [flat] finish (over stain).
 - RIN 6.1U Latex solid color stain finish.
- .14 **Dimension Lumber:** (columns, beams, exposed joists, underside of decking, etc.)
- RIN 6.2A Latex [insert gloss level] finish (over alkyd primer).
 - RIN 6.2B High performance architectural latex [insert gloss level] finish.
 - RIN 6.2C Alkyd [insert gloss level] finish.
 - RIN 6.2D Latex [insert gloss level] finish.
 - RIN 6.2E Multicolor finish.
 - RIN 6.2F Pigmented fire retardant [insert gloss level] coating (UL/ULC rated).
 - RIN 6.2G Clear fire retardant [insert gloss level] coating (UL/ULC rated).
 - RIN 6.2H Polyurethane varnish [gloss] [satin] finish (over stain).
 - RIN 6.2J Waterborne light industrial [insert gloss level] coating.
 - RIN 6.2K Epoxy finish.
 - RIN 6.2L Alkyd varnish [insert gloss level] finish.
 - RIN 6.2M Polyurethane varnish [gloss] [satin] finish.
 - RIN 6.2N Alkyd varnish [insert gloss level] finish (over stain).
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- RIN 6.2P Institutional low odor / low VOC [insert gloss level] finish.
RIN 6.2Q Waterborne clear varnish [insert gloss level] finish (over stain).
RIN 6.2R Clear moisture cured polyurethane [gloss] [flat] finish (over stain).
RIN 6.2S Semi-transparent stain finish.
- .15 **Dressed Lumber:** (including doors, door and window frames, casings, molding, etc.)
- RIN 6.3A Latex [gloss] [semi-gloss] finish (over alkyd undercoat).
RIN 6.3B Alkyd [gloss] [semi-gloss] finish.
RIN 6.3C Semi-transparent stain finish [for low traffic / low contact areas only].
RIN 6.3D Alkyd varnish [insert gloss level] finish (over stain).
RIN 6.3E Polyurethane varnish [gloss] [satin] finish (over stain).
RIN 6.3F Lacquer [gloss] [satin] finish (over stain).
RIN 6.3G Pigmented lacquer [insert gloss level] finish.
RIN 6.3H Clear lacquer [gloss] [satin] finish.
RIN 6.3J Alkyd varnish [insert gloss level] finish.
RIN 6.3K Polyurethane varnish [gloss] [satin] finish.
RIN 6.3L Epoxy finish.
RIN 6.3M Danish oil finish.
RIN 6.3N Multicolor finish.
RIN 6.3P Waterborne light industrial [insert gloss level] coating.
RIN 6.3Q Waterborne clear varnish [insert gloss level] finish.
RIN 6.3R Pigmented fire retardant [insert gloss level] finish (UL/ULC rated).
RIN 6.3S Clear fire-retardant finish (UL/ULC rated).
RIN 6.3T High performance architectural latex [insert gloss level] finish.
RIN 6.3U Latex [gloss] [semi-gloss] finish (over latex primer).
RIN 6.3V Institutional low odor / low VOC [insert gloss level] finish.
RIN 6.3W Waterborne clear varnish [insert gloss level] finish (over stain).
RIN 6.3X Clear moisture cured polyurethane [gloss] [flat] finish.
RIN 6.3Y Clear two component polyurethane finish.
RIN 6.3Z Clear moisture cured polyurethane [gloss] [flat] finish (over stain).
- .16 **Wood Paneling and Casework:** (partitions, panels, shelving, millwork, etc.)
- RIN 6.4A Latex [insert gloss level] finish.
RIN 6.4B High performance architectural latex [insert gloss level] finish.
RIN 6.4C Alkyd [insert gloss level] finish.
RIN 6.4D Institutional low odor / low VOC [insert gloss level] finish.
RIN 6.4E Semi-transparent stain finish.
RIN 6.4F Alkyd varnish [insert gloss level] finish (over stain).
RIN 6.4G Polyurethane varnish [gloss] [satin] finish (over stain).
RIN 6.4H Lacquer [insert gloss level] finish (over stain).
RIN 6.4J Alkyd varnish [insert gloss level] finish.
RIN 6.4K Pigmented lacquer [insert gloss level] finish.
RIN 6.4L Polyurethane varnish [gloss] [satin] finish.
RIN 6.4M Danish oil finish.
RIN 6.4N Multicolor finish.
RIN 6.4P Waterborne clear varnish [insert gloss level] finish.
RIN 6.4Q Waterborne light industrial [insert gloss level] coating.
RIN 6.4R Pigmented fire retardant [insert gloss level] coating (UL/ULC rated).
RIN 6.4S Clear fire retardant [insert gloss level] coating (UL/ULC rated).
RIN 6.4T Latex [gloss] [semi-gloss] finish (over latex primer).
RIN 6.4U Waterborne clear varnish [insert gloss level] finish (over stain).
RIN 6.4V Clear moisture cured polyurethane [gloss] [flat] finish (over stain).
RIN 6.4W Clear lacquer [insert gloss level] finish.
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- .17 **Wood Floors and Stairs:** (including hardwood flooring, etc.)
- RIN 6.5A Alkyd floor enamel [gloss] [low gloss] [SRA Optional] finish.
 - RIN 6.5B Polyurethane varnish gloss finish (over stain) [SRA Optional].
 - RIN 6.5C Polyurethane varnish gloss finish [SRA Optional].
 - RIN 6.5D Moisture cured polyurethane gloss finish [SRA Optional].
 - RIN 6.5E Alkyd game line marking.
 - RIN 6.5F Epoxy game line marking.
 - RIN 6.5G Clear two component polyurethane finish.
 - RIN 6.5H Pigmented polyurethane finish.
 - RIN 6.5J Latex porch and floor [gloss] [low gloss] [SRA Optional] enamel finish.
 - RIN 6.5L Clear moisture cured polyurethane gloss finish (over stain).
 - RIN 6.5M Epoxy Enamel [SRA Optional].
- .18 **Wood Shingles and Shakes:** (wall coverings)
- RIN 6.6A Latex [insert gloss level] finish (over alkyd primer).
 - RIN 6.6B Alkyd [insert gloss level] finish.
 - RIN 6.6C Semi-transparent stain finish.
 - RIN 6.6D Alkyd solid color stain finish.
 - RIN 6.6E Latex solid color stain finish.
 - RIN 6.6F Latex [insert gloss level] finish (over latex primer).
 - RIN 6.6G Pigmented fire retardant [insert gloss level] coating (UL/ULC rated).
 - RIN 6.6H Clear fire retardant [insert gloss level] coating (UL/ULC rated).
- .19 **Fiberglass:** (panels, trims, fabrications, etc.)
- RIN 6.7A Latex [insert gloss level] finish.
 - RIN 6.7B Alkyd [insert gloss level] finish.
 - RIN 6.7C Waterborne light industrial [insert gloss level] coating.
 - RIN 6.7D Epoxy [insert gloss level] finish.
 - RIN 6.7E Pigmented polyurethane finish.
 - RIN 6.7F Epoxy-modified latex finish.
 - RIN 6.7G Multicolor finish.
 - RIN 6.7H High performance acrylic latex [insert gloss level] finish.
 - RIN 6.7J Institutional low odor / low VOC [insert gloss level] finish.
- .20 **Plastic:** (lumber, panels, trims, fabrications, vinyl wall covering, PVA / PVC materials, etc.)
- RIN 6.8A High performance architectural latex [insert gloss level] finish.
 - RIN 6.8B Alkyd [insert gloss level] finish.
 - RIN 6.8C Waterborne light industrial [insert gloss level] coating.
 - RIN 6.8D Multicolor finish.
 - RIN 6.8E Latex [insert gloss level] finish.
 - RIN 6.8F Institutional low odor / low VOC [insert gloss level] finish.
 - RIN 6.8G High performance architectural latex [insert gloss level] finish. [for vinyl wall coverings only]
 - RIN 6.8H Latex [insert gloss level] finish. [for vinyl wall coverings only]
 - RIN 6.8J Institutional low odor / low VOC [insert gloss level] finish. [for vinyl wall coverings only]
 - RIN 6.8K Alkyd [insert gloss level] finish. [for vinyl wall coverings only]
- .21 **Spray Textured Surfaces:** (ceilings)
- RIN 9.1A Latex flat finish.
 - RIN 9.1B Latex [insert gloss level] finish.
 - RIN 9.1C Alkyd flat finish.
 - RIN 9.1D Alkyd [insert gloss level] finish.
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- .22 **Plaster and Gypsum Board Surfaces:** (gypsum wallboard, drywall, "sheet rock type material", etc., and textured finishes)
- RIN 9.2A Latex [insert gloss level] finish.
 - RIN 9.2B High performance architectural latex [insert gloss level] finish.
 - RIN 9.2C Alkyd [insert gloss level] finish.
 - RIN 9.2D Epoxy finish.
 - RIN 9.2E Epoxy-modified latex finish.
 - RIN 9.2F Multicolor finish.
 - RIN 9.2G Fire retardant [insert gloss level] coating (UL/ULC rated).
 - RIN 9.2H Waterborne fire retardant [insert gloss level] coating (UL/ULC rated).
 - RIN 9.2J Pigmented polyurethane coating.
 - RIN 9.2K Latex [insert gloss level] finish (over alkyd primer) for plaster surfaces only.
 - RIN 9.2L Waterborne light industrial [insert gloss level] coating.
 - RIN 9.2M Institutional low odor / low VOC [insert gloss level] finish.
- .23 **Acoustic Panels and Tiles:**
- RIN 9.3A Latex flat finish.
 - RIN 9.3B Latex [insert gloss level] finish.
 - RIN 9.3C Alkyd flat finish.
 - RIN 9.3D Institutional low odor / low VOC [insert gloss level] finish.
 - RIN 9.3E High performance architectural latex [insert gloss level] finish.
- .24 **Canvas and Cotton Coverings:**
- RIN 10.1A Latex [insert gloss level] finish.
 - RIN 10.1B Alkyd [insert gloss level] finish.
 - RIN 10.1C Aluminum paint finish.
 - RIN 10.1D Institutional low odor / low VOC [insert gloss level] finish.
 - RIN 10.1E Waterborne light industrial [insert gloss level] coating.
- .25 **Bituminous Coated Surfaces:** (cast iron pipe, concrete, etc.)
- RIN 10.2A Latex [insert gloss level] finish.
 - RIN 10.2B Alkyd [insert gloss level] finish.
 - RIN 10.2C Aluminum paint finish.
- .26 Repaint interior game lines with colours [to match existing][as selected by the Owner] on interior resilient (gymnasium) flooring in accordance with resilient flooring manufacturer's recommendations for type of coating to be used.

3.5 Mechanical / Electrical Equipment:

SPEC NOTE: Co-ordinate painting requirements and identification of interior mechanical and electrical components and equipment as required. Ensure such painting is specified herein and identification of systems and components are covered under appropriate mechanical and electrical sections.

- .1 Unless otherwise noted, repainting shall also include exposed to view / previously painted mechanical and electrical equipment and components (panels, conduits, piping, hangers, ductwork, etc.).
- .2 Touch up scratches and marks and repaint such mechanical and electrical equipment and components with colour, and sheen finish to match existing unless otherwise noted or scheduled.
- .3 Do not paint over name plates or instruction labels.
- .4 Leave unfinished exposed conduits, piping, hangers, ductwork and other mechanical and electrical equipment in original finish.
- .5 Keep repainted sprinkler heads free of paint.

- .6 Do not paint interior transformers and substation equipment.

3.6 Field Quality Control / Standard of Acceptance:

- .1 All surfaces, preparation and paint applications shall be inspected.
- .2 Repainted interior surfaces shall be considered to lack uniformity and soundness if any of the following defects are apparent to the Painting Inspection Agency inspector:
 - .a brush / roller marks, streaks, laps, runs, sags, drips, heavy stippling, hiding or shadowing by inefficient application methods, skipped or missed areas, and foreign materials in paint coatings.
 - .b evidence of poor coverage at rivet heads, plate edges, lap joints, crevices, pockets, corners and re-entrant angles.
 - .c damage due to touching before paint is sufficiently dry or any other contributory cause.
 - .d damage due to application on moist surfaces or caused by inadequate protection from the weather.
 - .e damage and/or contamination of paint due to blown contaminants (dust, spray paint, etc.).
- .3 Repainted interior surfaces shall be considered unacceptable if any of the following are evident under final lighting source conditions:
 - .a visible defects are evident on vertical surfaces when viewed at 90 degrees to the surface from a distance of 1000 mm (39").
 - .b visible defects are evident on horizontal surfaces when viewed at 45 degrees to the surface from a distance of 1000 mm (39").
 - .c visible defects are evident on ceiling surfaces when viewed at 45 degrees to the surface.
 - .d when the final coat on any surface exhibits a lack of uniformity of sheen across full surface area.
- .4 Repainted surfaces rejected by the inspector shall be made good at the expense of the Contractor. Small affected areas may be touched up; large affected areas or areas without sufficient dry film thickness of paint shall be repainted. Runs, sags of damaged paint shall be removed by scraper or by sanding prior to application of paint.

3.7 Protection:

- .1 Protect all newly painted exterior surfaces from rain and snow, condensation, contamination, dust, salt spray and freezing temperatures until paint coatings are completely dry. Curing periods shall exceed the manufacturer's recommended minimum time requirements.
- .2 Erect barriers or screens and post signs to warn, limit or direct traffic away or around work area as required.

3.8 Clean-up:

- .1 Remove all paint where spilled, splashed, splattered or sprayed as work progresses using means and materials that are not detrimental to affected surfaces.
- .2 Keep work area free from an unnecessary accumulation of tools, equipment, surplus materials and debris.
- .3 Remove combustible rubbish materials and empty paint cans each day and safely dispose of same in accordance with requirements of authorities having jurisdiction.
- .4 Clean equipment and dispose of wash water / solvents as well as all other cleaning and protective materials (e.g. rags, drop cloths, masking papers, etc.), paints, thinners, paint removers/strippers in accordance with the safety requirements of authorities having jurisdiction.