

DUNN-EDWARDS INTERIOR MASTER SPECIFICATION

SECTION 099123

INTERIOR PAINTING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes surface preparation and the application of paint systems on the following interior substrates listed in 3.6 Interior Painting Schedule.
- B. Related Requirements:
 - 1. Section 051200 "Structural Steel Framing" for shop priming of metal substrates with primers specified in this Section.
 - 2. Section 099113 "Exterior Painting" for surface preparation and the application of paint systems on exterior substrates.
 - 3. Section 099300 "Staining and Transparent Finishing" for surface preparation and the application of wood stains and transparent finishes on interior wood substrates.
 - 4. Section 099600 "High-Performance Coatings" for high-performance and special-use coatings.

1.3 DEFINITIONS

- A. Gloss Level 1: Not more than 5 units at 60 degrees and 1 to 2 units at 85 degrees.
- B. Gloss Level 2: 5 to 9 units at 60 degrees and 10 to 15 units at 85 degrees.
- C. Gloss Level 3: 10 to 15 units at 60 degrees and 15 to 30 units at 85 degrees.
- D. Gloss Level 4: 20 to 35 units at 60 degrees and 35 to 50 units at 85 degrees.
- E. Gloss Level 5: 40 to 50 units at 60 degrees.
- F. Gloss Level 6: 70 to 80 units at 60 degrees.
- G. Gloss Level 7: More than 80 units at 60 degrees.
- H. Blocking: Two painted surfaces sticking together such as a painted door sticking to a painted jamb.

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- I. Mildew Resistant: Certified products are specially formulated with microbicidal additives that resist mold, mildew, and algae growth on the paint film and inhibit growth of bacterial odors.
- J. CHPS: Collaborative for High Performance Schools. A national movement to improve student performance and the entire educational experience by building the best possible schools. www.chps.net.
- K. EG: Ethylene Glycol. Ethylene glycol is listed as a hazardous air pollutant (HAP) by the U.S. EPA.
- L. PDCA: Painting & Decorating Contractors of America www.pdca.org .
- M. RAVOC: Reactivity adjusted VOC. "Reactivity" means the ability of a VOC to promote ozone formation
- N. SSPC: The Society for Protective Coatings publishes Scopes of SSPC Surface Preparation Standards and Specifications www.sspc.org .
- O. Dunn-Edwards Conformance Chart: [D-E CONFORMANCE TABLE](#)

1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product. Include preparation requirements and application instructions.
- B. LEED v.4 Requirements: Interior paints and coatings must pass CDPH Standard Method V1.1 (also called section 01350) emissions testing; and they must comply with the VOC content limits of the California ARB 2007 Suggested Control Measure for Architectural Coatings.
- C. Samples for Initial Selection: For each type of topcoat product.
- D. Samples for Verification: For each type of paint system and in each color and gloss of topcoat.
 - 1. Submit Samples on rigid backing, no smaller than 7 inches X 10 inches (177 mm X 254 mm) or larger than 8.5 inches X 11 inches (216 mm X 280 mm).
 - 2. Label each Sample for project, architect, general contractor, painting contractor, paint color name and number, paint brand name, "P" number if applicable, and application area.
- E. Product List: For each product indicated, include the following:
 - 1. Cross-reference to paint system and locations of application areas. Use same designations indicated on Drawings and in schedules.
 - 2. VOC content.

1.5 MAINTENANCE MATERIAL SUBMITTALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.

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1. Paint: Provide not less than 1 gal. (3.8L) of each material and color applied.

1.6 QUALITY ASSURANCE

- A. Mockups: Apply mockups of each paint system indicated and each color and finish selected to verify preliminary selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
 1. Architect will select one surface to represent surfaces and conditions for application of each paint system specified in Part 3.
 - a. Vertical and Horizontal Surfaces: Provide samples of at least 100 sq. ft. (9 sq. m).
 - b. Other Items: Architect will designate items or areas required.
 2. Final approval of color selections will be based on mockups.
 - a. If preliminary color selections are not approved, apply additional mockups of additional colors selected by Architect at no added cost to Owner.
 3. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
 4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Store materials not in use in tightly covered containers in well-ventilated areas with ambient temperatures continuously maintained at not less than 45 deg F (7 deg C).
 1. Maintain containers in clean condition, free of foreign materials and residue.
 2. Remove rags and waste from storage areas daily.

1.8 FIELD CONDITIONS

- A. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 90 degrees F (10 and 32 degrees C).
- B. Do not apply paints when relative humidity exceeds 85 percent; at temperatures less than 5 degrees F (3 degrees C) above the dew point; or to damp or wet surfaces.
- C. Painting contractor should follow proper painting practices and exercise judgment based on his or her experience and project specific conditions as to when to proceed.

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PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Basis-of-Design Product: Provide products listed from the Dunn-Edwards Corporation.

2.2 PAINT, GENERAL

- A. Material Compatibility:

1. Provide materials for use within each paint system that are compatible with one another and substrates indicated, under conditions of service and application as demonstrated by manufacturer, based on testing and field experience.
2. For each coat in a paint system, provide products recommended in writing by manufacturers of topcoat for use in paint system and on substrate indicated.

- B. VOC Content: Provide material that comply with VOC limits of authorities having jurisdiction.

- C. Colorants: The use of colorants containing hazardous chemicals, such as ethylene glycol, is prohibited and zero VOC colorants should be used whenever possible.

- D. Colors: As selected by the Architect.

1. Indicate a percentage of surface area which will be painted with deep tones.

2.3 SOURCE QUALITY CONTROL

- A. Testing of Paint Materials: Owner reserves the right to invoke the following procedure:

1. Owner may engage the services of a qualified testing agency to sample paint materials. Contractor will be notified in advance and may be present when samples are taken. If paint materials have already been delivered to Project site, samples may be taken at Project site. Samples will be identified, sealed, and certified by testing agency.
2. Testing agency will perform tests for compliance with product requirements.
3. Owner may direct Contractor to stop applying coatings if test results show materials being used do not comply with product requirements. Contractor shall remove noncomplying paint materials from Project site, pay for testing, and repaint surfaces painted with rejected materials. Contractor will comply with requirements to use compatible products and systems as described in Article 2.2. Contractor will be required to remove rejected materials from previously painted surfaces if, on repainting with complying materials, the two paints are incompatible.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine substrates and conditions, with Applicator present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
- B. Maximum Moisture Content of Substrates: When measured with an electronic moisture meter as follows:
 - 1. Concrete: 12 percent.
 - 2. Masonry (Clay and CMU): 12 percent.
 - 3. Wood: 15 percent.
 - 4. Gypsum Board: 12 percent.
 - 5. Plaster: 12 percent.
- C. Gypsum Board Substrates: Verify that finishing compound is sanded smooth.
- D. Plaster Substrates: Verify that plaster is fully cured, including pH testing to determine that alkalinity is within limits established by the manufacturer.
- E. Spray-Textured Ceiling Substrates: Verify that surfaces are dry.
- F. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers.
- G. Proceed with coating application only after unsatisfactory conditions have been corrected.
 - 1. Application of coating indicates acceptance of surfaces and conditions.

3.2 PREPARATION

- A. Comply with manufacturer's written instructions.
- B. Remove hardware, covers, plates, and similar items already in place that are removable and are not to be painted. If removal is impractical or impossible because of size or weight of item, provide surface-applied protection before surface preparation and painting.
 - 1. After completing painting operations, use workers skilled in the trades involved to reinstall items that were removed. Remove surface-applied protection if any.
- C. Clean substrates of substances that could impair bond of paints, including dust, dirt, oil, grease, and incompatible paints and encapsulants.
 - 1. Remove incompatible primers and re-prime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

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- D. Concrete Substrates: Remove release agents, curing compounds, efflorescence, and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted in manufacturer's written instructions, including pH testing to determine that alkalinity is within limits established by the manufacturer.
- E. Masonry Substrates: Remove efflorescence and chalk. Do not paint surfaces if moisture content or alkalinity of surfaces or mortar joints exceed that permitted in manufacturer's written instructions.
- F. Steel Substrates: Remove rust, loose mill scale, and shop primer, if any. Clean using methods recommended in writing by paint manufacturer.
- G. Shop Primed Steel Substrates: Clean field welds, bolted connections, and abraded areas of shop paint, and paint exposed areas with the same material as used for shop priming to comply with SSPC-PA 1 for touching up shop primed surfaces.
- H. Galvanized Metal Substrates: Remove grease and oil residue from galvanized sheet metal fabricated from coil stock to produce clean, lightly etched surfaces that promote adhesion of subsequently applied paints.
- I. Aluminum Substrates: Remove loose surface oxidation.
- J. Wood Substrates:
 - 1. Scrape and clean knots and apply coat of knot sealer before applying primer.
 - 2. Sand surfaces that will be exposed to view and dust off.
 - 3. Prime edges, ends, faces, undersides, and backsides of wood.
 - 4. After priming, fill holes and imperfections in the finish surfaces with putty or plastic wood filler. Sand smooth when dried.
- K. Cotton or Canvas Insulation Covering Substrates: Remove dust, dirt, and other foreign material that might impair bond of paints to substrates.

3.3 APPLICATION

- A. Apply paints according to manufacturer's written instructions.
 - 1. Use applicators and techniques suited for paint and substrate indicated.
 - 2. Paint surfaces behind movable equipment and furniture same as similar exposed surfaces. Before final installation, paint surfaces behind permanently fixed equipment or furniture with prime coat only.
 - 3. Paint front and backsides of access panels, removable or hinged covers, and similar hinged items to match exposed surfaces.
 - 4. Do not paint over labels of independent testing agencies or equipment name, identification, performance rating, or nomenclature plates.
 - 5. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to topcoat manufacturers.

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- B. Tint each undercoat to a lighter shade of the finish coat (not to exceed 2 ounces of colorant) to facilitate identification of each coat if multiple coats of same material are to be applied.
- C. If undercoats or other conditions show through topcoat, apply additional coats until cured film has a uniform paint finish, color, and appearance.
- D. Apply paints to produce surface films without cloudiness, spotting, holidays, laps, brush marks, roller tracking, runs, sags, ropiness, or other surface imperfections. Cut in sharp lines and color breaks.
- E. Block Fillers: Provide block fill as scheduled to conform to the following PDCA Standard P12-05:
 - 1. Level 3 - Premium Fill: One or multiple coats of high performance block filler manufactured to be applied at a high dry film build. Block filler shall be back-rolled to eliminate voids and reduce the majority of the masonry profile depth.
- F. Painting Fire Suppression, Plumbing, HVAC, Electrical, Communication, and Electronic Safety and Security Work:
 - 1. Paint the following work where exposed in equipment rooms:
 - a. Equipment, including panelboards and switch gear.
 - b. Uninsulated metal piping.
 - c. Uninsulated plastic piping.
 - d. Pipe hangers and supports.
 - e. Metal conduit.
 - f. Plastic conduit.
 - g. Tanks that do not have factory-applied final finishes.
 - h. Duct, equipment, and pipe insulation having cotton or canvas insulation covering or other paintable jacket material.
 - i. Other items as directed by the architect.
 - 2. Paint the following work where exposed in occupied spaces:
 - a. Equipment, including panelboards.
 - b. Uninsulated metal piping.
 - c. Uninsulated plastic piping.
 - d. Pipe hangers and supports.
 - e. Metal conduit.
 - f. Plastic conduit.
 - g. Duct, equipment, and pipe insulation having cotton or canvas insulation covering or other paintable jacket material.
 - h. Other items as directed by the Architect.
 - 3. Paint portions of internal surfaces of metal ducts, without liner, behind air inlets and outlets that are visible from occupied spaces.

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3.4 FIELD QUALITY CONTROL

- A. Dry Film Thickness Testing: Owner may engage the services of a qualified testing and inspecting agency to inspect and test paint for dry film thickness.
 - 1. Contractor shall touch up and restore painted surfaces damaged by testing.
 - 2. If test results show that dry film thickness of applied paint does not comply with paint manufacturer's written recommendations, Contractor shall pay for testing and apply additional coats as needed to provide dry film thickness that complies with paint manufacturer's written recommendations.

3.5 CLEANING AND PROTECTION

- A. At end of each workday, remove rubbish, empty cans, rags, and other discarded materials from Project site.
- B. After completing paint application, clean spattered surfaces. Remove spattered paints by washing, scraping, or other methods. Do not scratch or damage adjacent finished surfaces.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing, as approved by Architect, and leave in an undamaged condition.
- D. At completion of construction activities of other trades, touch up and restore damaged or defaced painted surfaces.

3.6 INTERIOR PAINTING SCHEDULE

- A. Concrete Substrates, Nontraffic Surfaces:
 - 1. Premium Low Odor /VOC Latex System:
 - a. Prime Coat: Primer, alkali resistant, waterbased, interior/exterior, Dunn-Edwards, Eff-Stop Select [ESSL00](#).
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat, Dunn-Edwards, Spartazero [SZRO10](#), (Gloss Level 1).
Or
 - d. Topcoat: Latex, interior, velvet, Dunn-Edwards, Spartawall [SWLL20](#), (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Spartawall [SWLL30](#), (Gloss Level 3).
Or
 - f. Topcoat: Latex, interior, low sheen, Dunn-Edwards, Spartawall [SWLL40](#), (Gloss Level 4).
Or

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- g. Topcoat: Latex, interior, semi-gloss, Dunn-Edwards, Spartawall [SWLL50](#), (Gloss Level 5).
- 2. Ultra-Premium Low Odor/VOC Latex System:
 - a. Prime Coat: Primer sealer, Dunn-Edwards, Eff-Stop Premium [ESPR00](#).
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat, Dunn-Edwards, Everest [EVER10](#), (Gloss Level 1).
Or
 - d. Topcoat: Latex, interior, velvet, Dunn-Edwards, Everest [EVER20](#), (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Everest [EVER30](#), (Gloss Level 3).
Or
 - f. Topcoat: Latex, interior, semi-gloss, Dunn-Edwards, Everest [EVER50](#), (Gloss Level 5).
 - 3. Waterborne Urethane Alkyd Enamel over a Latex Primer System:
 - a. Prime Coat: Primer, alkali resistant, waterbased, Dunn-Edwards, Eff-Stop Premium [ESPR00](#).
 - b. Intermediate Coat: Waterborne urethane alkyd, interior/exterior, matching topcoat.
 - c. Topcoat: Waterborne urethane alkyd, interior/exterior, eggshell, Dunn-Edwards, Aristoshield [ASHL30](#), (Gloss Level 3).
Or
 - d. Topcoat: Waterborne urethane alkyd, interior/exterior, semi-gloss, Dunn-Edwards, Aristoshield [ASHL50](#), (Gloss Level 5).
Or
 - e. Topcoat: Waterborne urethane alkyd, interior/exterior, high gloss, Dunn-Edwards, Aristoshield [ASHL70](#), (Gloss Level 7).
 - 4. Pre-Catalyzed Waterbased Epoxy Over a Latex Primer System:
 - a. Prime Coat: Primer, alkali resistant, waterbased, Dunn-Edwards, Eff-Stop Premium [ESPR00](#).
 - b. Intermediate Coat: Pre-catalyzed waterbased epoxy, interior, matching topcoat.
 - c. Topcoat: Pre-catalyzed waterbased epoxy, interior, semi-gloss, Dunn-Edwards, Enduracat [ENPX50](#), (Gloss Level 5).
- B. Clay-Masonry Substrates:
- 1. Premium Low Odor /VOC Latex System:
 - a. Prime Coat: Primer, alkali resistant, waterbased, Dunn-Edwards, Eff-Stop Select [ESSL00](#).
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat, Dunn-Edwards, Spartazero [SZRO10](#), (Gloss Level 1).

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- d. Topcoat: Latex, interior, velvet, Dunn-Edwards, Spartawall [SWLL20](#), (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Spartawall [SWLL30](#), (Gloss Level 3).
Or
 - f. Topcoat: Latex, interior, low sheen, Dunn-Edwards, Spartawall [SWLL40](#), (Gloss Level 4).
Or
 - g. Topcoat: Latex, interior, semi-gloss, Dunn-Edwards, Spartawall [SWLL50](#), (Gloss Level 5).
2. Ultra-Premium Low Odor/VOC Latex System:
- a. Prime Coat: Primer, alkali resistant, waterbased, Dunn-Edwards, Eff-Stop Premium [ESPR00](#).
 - b. Intermediate Coat: Latex, interior, low odor/VOC, matching topcoat.
 - c. Topcoat: Latex, interior, flat, Dunn-Edwards, Everest [EVER10](#), (Gloss Level 1).
Or
 - d. Topcoat: Latex, interior, velvet, Dunn-Edwards, Everest [EVER20](#), (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Everest [EVER30](#), (Gloss Level 3).
Or
 - f. Topcoat: Latex, interior, semi-gloss, Dunn-Edwards, Everest [EVER50](#), (Gloss Level 5).
3. Waterborne Urethane Alkyd Enamel over a Latex Primer System:
- a. Prime Coat: Prime Coat: Primer, alkali resistant, waterbased, Dunn-Edwards, Eff-Stop Premium [ESPR00](#).
 - b. Intermediate Coat: Waterborne urethane alkyd matching topcoat.
 - c. Topcoat: Waterborne urethane alkyd, interior/exterior, eggshell, Dunn-Edwards, Aristoshield [ASHL30](#), (Gloss Level 3).
Or
 - d. Topcoat: Waterborne urethane alkyd, interior/exterior, semi-gloss, Dunn-Edwards, Aristoshield [ASHL50](#), (Gloss Level 5).
Or
 - e. Topcoat: Waterborne urethane alkyd, interior/exterior, high gloss, Dunn-Edwards, Aristoshield [ASHL70](#), (Gloss Level 7).
4. Pre-Catalyzed Waterbased Epoxy Over a Latex Primer System:
- a. Prime Coat: Primer, alkali resistant, water based, Dunn-Edwards, Eff-Stop Premium [ESPR00](#).
 - b. Intermediate Coat: Pre-catalyzed waterbased epoxy matching topcoat.
 - c. Topcoat: Pre-catalyzed waterbased epoxy, interior, semi-Gloss, Dunn-Edwards, Enduracat [ENPX50](#), (Gloss Level 5).

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C. CMU Substrates:

1. Premium Low Odor/VOC Latex System:

- a. Block Filler: Block filler, latex, interior/exterior, Dunn-Edwards, Smooth Blocfil Select [SBSL00](#).
- b. Intermediate Coat: Latex, interior, matching topcoat.
- c. Topcoat: Latex, interior, flat, Dunn-Edwards, Spartazero [SZRO10](#), (Gloss Level 1).
Or
- d. Topcoat: Latex, interior, velvet, Dunn-Edwards, Spartawall [SWLL20](#), (Gloss Level 2).
Or
- e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Spartawall [SWLL30](#), (Gloss Level 3).
Or
- f. Topcoat: Latex, interior, low sheen, Dunn-Edwards, Spartawall [SWLL40](#), (Gloss Level 4).
or
- g. Topcoat: Latex, interior, semi-gloss, Dunn-Edwards, Spartawall [SWLL50](#), (Gloss Level 5).

2. Ultra-Premium Low Odor/VOC Latex System:

- a. Block Filler: Block filler, latex, interior/exterior, Dunn-Edwards, Smooth Blocfil Premium [SBPR00](#).
- b. Intermediate Coat: Latex, interior, matching topcoat.
- c. Topcoat: Latex, interior, flat, Dunn-Edwards, Everest [EVER10](#), (Gloss Level 1).
Or
- d. Topcoat: Latex, interior, velvet, Dunn-Edwards, Everest [EVER20](#), (Gloss Level 2).
Or
- e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Everest [EVER30](#), (Gloss Level 3).
Or
- f. Topcoat: Latex, interior, low odor/VOC, semi-gloss, Dunn-Edwards, Everest [EVER50](#), (Gloss Level 5).

3. Waterborne Urethane Alkyd Enamel over a Latex Block Filler System:

- a. Block Filler: Block filler, latex, interior/exterior, Dunn-Edwards, Smooth Blocfil Select [SBSL00](#).
- b. Intermediate Coat: Waterborne urethane alkyd, interior/exterior, matching topcoat.
- c. Topcoat: Waterborne urethane alkyd, interior/exterior, eggshell, Dunn-Edwards, Aristoshield [ASHL30](#), (Gloss Level 3).
Or
- d. Topcoat: Waterborne urethane alkyd, interior/exterior, semi-gloss, Dunn-Edwards, Aristoshield [ASHL50](#), (Gloss Level 5).
Or

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- e. Topcoat: Waterborne urethane alkyd, interior/exterior, high gloss, Dunn-Edwards, Aristoshield [ASHL70](#), (Gloss Level 7).
4. Pre-Catalyzed Waterbased Epoxy over a Latex Block Filler System:
- a. Block Filler: Block filler, latex, interior/exterior, Dunn-Edwards, Smooth Blocfil Select [SBSL00](#).
 - b. Intermediate Coat: Pre-catalyzed waterbased epoxy, interior, matching topcoat.
 - c. Topcoat: Pre-catalyzed waterbased epoxy, interior, Dunn-Edwards, Enduracat [ENPX50](#), (Gloss Level 5).
- D. Steel Substrates:
1. Premium Low Odor/VOC Latex over a Waterborne Alkyd Primer System:
- a. Prime Coat: Primer, alkyd, anti-corrosive, for metal, Dunn-Edwards, Bloc-Rust Premium [BRPR00](#) Series or Enduraprime Rust Preventative Primer [ENPR00](#).
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat, Dunn-Edwards, Spartazero [SZRO10](#), (Gloss Level 1).
Or
 - d. Topcoat: Latex, interior, velvet, Dunn-Edwards, Spartawall [SWLL20](#), (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Spartawall [SWLL30](#), (Gloss Level 3).
Or
 - f. Topcoat: Latex, interior, low sheen, Dunn-Edwards, Spartawall [SWLL40](#), (Gloss Level 4).
Or
 - g. Topcoat: Latex, interior, semi-gloss, Dunn-Edwards, Spartawall [SWLL50](#), (Gloss Level 5).
2. Water Based Dry Fall System:
- a. Topcoat: Dry fall, water based, flat, Dunn-Edwards, Aquafall [AQUA10](#), (Gloss Level 1).
Or
 - b. Topcoat: Dry fall, water based, eggshell, Dunn-Edwards, Aquafall [AQUA30](#), (Gloss Level 3).
Or
 - c. Topcoat: Dry fall, water based, semi-gloss, Dunn-Edwards, Aquafall [AQUA50](#), (Gloss Level 5).
3. Ultra-Premium Low Odor/VOC Latex over a Waterborne Alkyd Primer System:
- a. Prime Coat: Primer, rust-inhibitive, water based, Dunn-Edwards, Bloc-Rust Premium [BRPR00](#) Series or Enduraprime Rust Preventative Primer [ENPR00](#).
 - b. Intermediate Coat: Latex, interior, low odor/VOC, matching topcoat.

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- c. Topcoat: Latex, interior, low odor/VOC, flat, Dunn-Edwards Everest [EVER10](#), (Gloss Level 1).
Or
 - d. Topcoat: Latex, interior, low odor/VOC, velvet, Dunn-Edwards Everest [EVER20](#), (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, low odor/VOC, eggshell, Dunn-Edwards, Everest [EVER30](#), (Gloss Level 3).
Or
 - f. Topcoat: Latex, interior, low odor/VOC, semi-gloss, Dunn-Edwards, Everest [EVER50](#), (Gloss Level 5).
4. Waterborne Urethane Alkyd Enamel System:
- a. Prime Coat: Primer, alkyd, anti-corrosive, for metal, Dunn-Edwards, Bloc-Rust Premium [BRPR00](#) Series or Enduraprime Rust Preventative Primer [ENPR00](#).
 - b. Intermediate Coat: Waterborne urethane alkyd matching topcoat.
 - c. Topcoat: Waterborne urethane alkyd, interior/exterior, eggshell, Dunn-Edwards, Aristoshield [ASHL30](#), (Gloss Level 3).
Or
 - d. Topcoat: Waterborne urethane alkyd, interior/exterior, semi-gloss, Dunn-Edwards, Aristoshield [ASHL50](#), (Gloss Level 5).
Or
 - e. Topcoat: Waterborne urethane alkyd, interior/exterior, high gloss, Dunn-Edwards, Aristoshield [ASHL70](#), (Gloss Level 7).
5. Pre-Catalyzed Waterbased Epoxy over a Waterborne Alkyd Primer System:
- a. Prime Coat: Primer, alkyd, anti-corrosive, for metal, Dunn-Edwards, Bloc-Rust Premium [BRPR00](#) Series or Enduraprime Rust Preventative Primer [ENPR00](#).
 - b. Intermediate Coat: Pre-catalyzed waterbased epoxy matching topcoat.
 - c. Topcoat: Pre-catalyzed waterbased epoxy, interior, semi-gloss, Dunn-Edwards, Enduracat [ENPX50](#), (Gloss Level 5).
- E. Galvanized Metal Substrates:
1. Premium Low Odor/VOC Latex System:
- a. Prime Coat: Primer, water based, Dunn-Edwards, Ultrashield Galvanized Metal Primer [ULGM00](#).
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat, Dunn-Edwards, Spartazero [SZRO10](#), (Gloss Level 1).
Or
 - d. Topcoat: Latex, interior, velvet, Dunn-Edwards, Spartawall [SWLL20](#), (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Spartawall [SWLL30](#), (Gloss Level 3).
Or

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- f. Topcoat: Latex, interior, low sheen, Dunn-Edwards, Spartawall [SWLL40](#), (Gloss Level 4).
Or
 - g. Topcoat: Latex, interior, semi-gloss, Dunn-Edwards, Spartawall [SWLL50](#), (Gloss Level 5).
2. Water Based Latex Dry Fall System:
- Topcoat: Dry fall, water based, flat, Dunn-Edwards, Aquafall [AQUA10](#), (Gloss Level 1).
Or
 - a. Topcoat: Dry fall, water based, low sheen, Dunn-Edwards, Aquafall [AQUA30](#), (Gloss Level 3).
Or
 - b. Topcoat: Dry fall, water based, low sheen, Dunn-Edwards, Aquafall [AQUA50](#), (Gloss Level 4).
3. Ultra-Premium Low Odor/VOC Latex System:
- a. Prime Coat: Primer, waterbased, Dunn-Edwards, Ultrashield Galvanized Metal Primer [ULGM00](#).
 - b. Intermediate Coat: Latex, interior, low odor/VOC, matching topcoat.
 - c. Topcoat: Latex, interior, low odor/VOC, flat, Dunn-Edwards Everest [EVER10](#), (Gloss Level 1).
Or
 - d. Topcoat: Latex, interior, low odor/VOC, velvet, Dunn-Edwards Everest [EVER20](#), (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, low odor/VOC, eggshell, Dunn-Edwards, Everest [EVER30](#), (Gloss Level 3).
Or
 - f. Topcoat: Latex, interior, low odor/VOC, semi-gloss, Dunn-Edwards, Everest, [EVER50](#), (Gloss Level 5).
4. Waterborne Urethane Alkyd Enamel over a Latex Primer System:
- a. Prime Coat: Primer, waterbased, Dunn-Edwards, Ultrashield Galvanized Metal Primer [ULGM00](#).
 - b. Intermediate Coat: Waterborne urethane alkyd matching topcoat.
 - c. Topcoat: Waterborne urethane alkyd, interior/exterior, eggshell, Dunn-Edwards, Aristoshield [ASHL30](#), (Gloss Level 3).
 - d. Topcoat: Waterborne urethane alkyd, interior/exterior, semi-gloss, Dunn-Edwards, Aristoshield [ASHL50](#), (Gloss Level 5).
Or
 - e. Topcoat: Waterborne urethane alkyd, interior/exterior, high gloss, Dunn-Edwards, Aristoshield [ASHL70](#), (Gloss Level 7).

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5. Pre-Catalyzed Waterbased Epoxy Over a Latex Primer System:
 - a. Prime Coat: Primer, waterbased, Dunn-Edwards, Ultrashield Galvanized Metal Primer [ULGM00](#).
 - b. Intermediate Coat: Pre-catalyzed waterbased epoxy matching topcoat.
 - c. Topcoat: Pre-catalyzed waterbased epoxy, interior, semi-gloss, Dunn-Edwards, Enduracat [ENPX50](#), (Gloss Level 5).

- F. Aluminum (Not Anodized or Otherwise Coated) Substrates:
 1. Premium Low Odor/VOC Latex System:
 - a. Prime Coat: Primer, waterbased, Dunn-Edwards, Ultrashield Galvanized Metal Primer [ULGM00](#).
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat, Dunn-Edwards, Spartazero [SZRO10](#), (Gloss Level 1).
Or
 - d. Topcoat: Latex, interior, velvet, Dunn-Edwards, Spartawall [SWLL20](#), (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Spartawall [SWLL30](#), (Gloss Level 3).
Or
 - f. Topcoat: Latex, interior, low sheen, Dunn-Edwards, Spartawall [SWLL40](#), (Gloss Level 4).
Or
 - g. Topcoat: Latex, interior, semi-gloss, Dunn-Edwards, Spartawall [SWLL50](#), (Gloss Level 5).

 2. Ultra-Premium Low Odor/VOC Latex System:
 - a. Prime Coat: Primer, waterbased, Dunn-Edwards, Ultrashield Galvanized Metal Primer [ULGM00](#).
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat, Dunn-Edwards Everest [EVER10](#), (Gloss Level 1).
Or
 - d. Topcoat: Latex, interior, velvet, Dunn-Edwards Everest [EVER20](#), (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Everest [EVER30](#), (Gloss Level 3).
Or
 - f. Topcoat: Latex, interior, semi-gloss, Dunn-Edwards, Everest, [EVER50](#), (Gloss Level 5).

 3. Waterborne Urethane Alkyd Enamel over a Latex Primer System:
 - a. Prime Coat: Primer, waterbased, Dunn-Edwards, Ultrashield Galvanized Metal Primer [ULGM00](#).
 - b. Intermediate Coat: Waterborne urethane alkyd matching topcoat.

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- c. Topcoat: Waterborne urethane alkyd, interior/exterior, eggshell, Dunn-Edwards, Aristoshield [ASHL30](#), (Gloss Level 3).
Or
 - d. Topcoat: Waterborne urethane alkyd, interior/exterior, semi-gloss, Dunn-Edwards, Aristoshield [ASHL50](#), (Gloss Level 5).
Or
 - e. Topcoat: Waterborne urethane alkyd, interior/exterior, high gloss, Dunn-Edwards, Aristoshield [ASHL70](#), (Gloss Level 7).
4. Pre-Catalyzed Waterbased Epoxy over a Latex Primer System:
- a. Prime Coat: Primer, water based, Dunn-Edwards, Ultrashield Premium [ULGM00](#).
 - b. Intermediate Coat: Pre-catalyzed waterbased epoxy matching topcoat.
 - c. Topcoat: Waterbased epoxy, interior, semi-gloss, Dunn-Edwards, Enduracat [ENPX50](#), (Gloss Level 5)"Aluminum Paint System" Subparagraph below corresponds to MPI INT 5.4D.
- G. Wood Substrates:
- 1. Premium Low Odor/VOC Latex System:
 - a. Prime Coat: Primer, latex, for interior wood, Dunn-Edwards, Inter-Kote [IKPR00](#).
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat, Dunn-Edwards, Spartazero [SZRO10](#), (Gloss Level 1).
Or
 - d. Topcoat: Latex, interior, velvet, Dunn-Edwards, Spartawall [SWLL20](#), (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Spartawall [SWLL30](#), (Gloss Level 3).
Or
 - f. Topcoat: Latex, interior, low sheen, Dunn-Edwards, Spartawall [SWLL40](#), (Gloss Level 4).
Or
 - g. Topcoat: Latex, interior, semi-gloss, Dunn-Edwards, Spartawall [SWLL50](#), (Gloss Level 5).
 - 2. Ultra-Premium Low Odor/VOC Latex System:
 - a. Prime Coat: Primer, latex, for interior wood, Dunn-Edwards, Inter-Kote [IKPR00](#).
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat, Dunn-Edwards Everest [EVER10](#), (Gloss Level 1).
Or
 - d. Topcoat: Latex, interior, velvet, Dunn-Edwards Everest [EVER20](#), (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Everest [EVER30](#), (Gloss Level 3).
Or

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- f. Topcoat: Latex, interior, semi-gloss, Dunn-Edwards, Everest [EVER50](#), (Gloss Level 5).
 3. Waterborne Urethane Alkyd Enamel over a Latex Primer System:
 - a. Prime Coat: Primer, latex, for interior wood, Dunn-Edwards, Inter-Kote [IKPR00](#).
 - b. Intermediate Coat: Waterborne urethane alkyd matching topcoat.
 - c. Topcoat: Waterborne urethane alkyd enamel, interior/exterior, eggshell, Dunn-Edwards, Aristoshield [ASHL30](#), (Gloss Level 3).
Or
 - d. Topcoat: Waterborne urethane alkyd, interior/exterior, semi-gloss, Dunn-Edwards, Aristoshield [ASHL50](#), (Gloss Level 5).
Or
 - e. Topcoat: Waterborne urethane alkyd, interior/exterior, high gloss, Dunn-Edwards, Aristoshield [ASHL70](#), (Gloss Level 7).
 4. Pre-Catalyzed Waterbased Epoxy:
 - a. Prime Coat: Prime Coat: Primer, waterbased, interior/exterior, Dunn-Edwards, Ultra-Grip Premium [UGPR00](#).
 - b. Intermediate Coat: Pre-catalyzed waterbased epoxy matching topcoat.
 - c. Topcoat: Waterbased epoxy, interior, semi-gloss, Dunn-Edwards, Enduracat [ENPX50](#), (Gloss Level 5).
- H. Gypsum Board Substrates:
1. Premium Low Odor/VOC Latex System:
 - a. Prime Coat: Primer sealer, latex, interior, Dunn-Edwards, Vinylastic Select [VNSL00](#).
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat, Dunn-Edwards, Spartazero [SZRO10](#), (Gloss Level 1).
Or
 - d. Topcoat: Latex, interior, velvet, Dunn-Edwards, Spartawall [SWLL20](#), (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Spartawall [SWLL30](#), (Gloss Level 3).
Or
 - f. Topcoat: Latex, interior, low sheen, Dunn-Edwards, Spartawall [SWLL40](#), (Gloss Level 4).
Or
 - g. Topcoat: Latex, interior, semi-gloss, Dunn-Edwards, Spartawall [SWLL50](#), (Gloss Level 5).
 2. Ultra-Premium Low-Odor/VOC Latex System:
 - a. Prime Coat: Primer sealer, latex, interior, Dunn-Edwards, Vinylastic Premium [VNPR00](#).

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- b. Intermediate Coat: Latex, interior, low odor/VOC, matching topcoat.
 - c. Topcoat: Latex, interior, low odor/VOC, flat, Dunn-Edwards Everest [EVER10](#), (GlossLevel 1)
Or
 - d. Topcoat: Latex, interior, low odor/VOC, velvet, Dunn-Edwards Everest [EVER20](#), (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, low odor/VOC, eggshell, Dunn-Edwards, Everest [EVER30](#), (Gloss Level 3).
Or
 - f. Topcoat: Latex, interior, low odor/VOC, semi-gloss, Dunn-Edwards, Everest [EVER50](#), (Gloss Level 5).
3. Waterborne Urethane Alkyd Enamel over Latex Sealer System:
- a. Prime Coat: Primer sealer, latex, interior, Dunn-Edwards, Vinylastic Premium [VNPR00](#).
 - b. Intermediate Coat: Waterborne urethane alkyd matching topcoat.
 - c. Topcoat: Waterborne urethane alkyd, interior/exterior, eggshell, Dunn-Edwards Aristoshield [ASHL30](#), (Gloss Level 3).
Or
 - d. Topcoat: Waterborne urethane alkyd, interior/exterior, semi-gloss, Dunn-Edwards Aristoshield [ASHL50](#), (Gloss Level 5)
Or
 - e. Topcoat: Waterborne urethane alkyd, interior/exterior, high gloss, Dunn-Edwards Aristoshield [ASHL70](#), (Gloss Level 7)
4. Pre-Catalyzed Waterbased Epoxy:
- a. Prime Coat: Primer sealer, latex, interior, Dunn-Edwards, Vinylastic Premium VNPR00.
 - b. Intermediate Coat: Pre-catalyzed waterbased epoxy matching topcoat.
 - c. Topcoat: Waterbased epoxy, interior, semi-gloss, Dunn-Edwards, Enduracat [ENPX50](#), (Gloss Level 5).
- I. Plaster Substrates:
1. Premium Low Odor/VOC Latex System:
- a. Prime Coat: Primer, alkali resistant, water based, Dunn-Edwards, Eff-Stop Select [ESSL00](#).
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat, Dunn-Edwards, Spartazero [SZRO10](#) (Gloss Level 1).
Or
 - d. Topcoat: Latex, interior, velvet, Dunn-Edwards, Spartawall [SWLL20](#) (Gloss Level 2).
Or
 - e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Spartawall [SWLL30](#) (Gloss Level 3).

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- Or
 - f. Topcoat: Latex, interior, low sheen, Dunn-Edwards, Spartawall [SWLL40](#) (Gloss Level 4).
 - Or
 - g. Topcoat: Latex, interior, semi-gloss, Dunn-Edwards, Spartawall [SWLL50](#) (Gloss Level 5).
2. Ultra-Premium Low Odor/VOC Latex System:
- a. Prime Coat: Primer, alkali resistant, water based, Dunn-Edwards, Eff-Stop Premium [ESPR00](#).
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat, Dunn-Edwards Everest [EVER10](#), (Gloss Level 1).
 - Or
 - d. Topcoat: Latex, interior, velvet, Dunn-Edwards Everest [EVER20](#), (Gloss Level 2).
 - Or
 - e. Topcoat: Latex, interior, eggshell, Dunn-Edwards, Everest [EVER30](#), (Gloss Level 3).
 - Or
 - f. Topcoat: Latex, interior, semi-gloss, Dunn-Edwards, Everest [EVER50](#), (Gloss Level 5).
3. Waterborne Urethane Alkyd Enamel over Latex Primer System:
- a. Prime Coat: Primer, alkali resistant, waterbased, Dunn-Edwards, Eff-Stop Premium [ESPR00](#).
 - b. Intermediate Coat: Waterborne urethane alkyd matching topcoat.
 - c. Topcoat: Waterborne urethane alkyd, interior/exterior, eggshell, Dunn-Edwards, Aristoshield [ASHL30](#), (Gloss Level 3).
 - Or
 - d. Topcoat: Waterborne urethane alkyd, interior/exterior, semi-gloss, Dunn-Edwards, Aristoshield [ASHL50](#), (Gloss Level 5).
 - Or
 - e. Topcoat: Waterborne urethane alkyd, interior/exterior, high gloss, Dunn-Edwards, Aristoshield [ASHL70](#), (Gloss Level 7).
4. Pre-Catalyzed Waterbased Epoxy over a Latex Primer System:
- a. Prime Coat: Primer, alkali resistant, waterbased, Dunn-Edwards, Eff-Stop Premium [ESPR00](#).
 - b. Intermediate Coat: Pre-catalyzed waterbased epoxy matching topcoat.
 - c. Topcoat: Pre-catalyzed waterbased epoxy, interior, semi-gloss, Dunn-Edwards, Enduracat [ENPX50](#), (Gloss Level 5).

END OF SECTION 099123