



SECTION 09 90 00 – PAINTING and COATING

PART 1 - GENERAL

1.01 SUMMARY

- A. Section Includes: Surface preparation and field application of the following paint systems:
 1. Interior items and surfaces.
 2. Exterior items and surfaces.
 3. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other Sections.

1.02 SUBMITTALS

- A. See Section 01300 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data for each type of product. Include surface preparation instructions, application instructions and VOC content.
 1. Materials List: Provide a list of required coating materials. Cross-reference each product to paint system, and locations of applications areas. Identify each material by manufacturer's catalog number. Use the same designations indicated on drawings and in schedules.
 2. Manufacturer's Information: Provide manufacturer's technical information, including instructions for handling, storing, and applying each coating material proposed for use.
- C. Color Samples:
 1. For each paint system specified, submit samples that represent actual product, color and sheen of topcoat.
 2. When requested by the Architect, apply a field sample of one complete coating system for each color, gloss and texture required.

1.03 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with a minimum of five years documented experience.
- B. Applicator Qualifications: Use adequate numbers of skilled workmen who are thoroughly trained and experienced in the necessary crafts and who are completely familiar with the specified requirements and the methods needed for proper performance of the work of this Section.



- C. Paint Coordination: Use block fillers, primers, and undercoat materials for each coating system from the same manufacturer as the finish coats.
- D. Regulatory Requirements: Comply with applicable codes and regulations of governmental agencies having jurisdiction over airborne emissions and industrial waste disposal. Where those requirements conflict with this specification, comply with the more stringent provisions.
 - 1. Regulatory changes may affect the formulation, availability or use of specified coatings. Confirm availability of coatings to be used.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to job site in undamaged, original containers, bearing labels and instructions for handling, storing, and installing. The label should include manufacturer's name, product name and type, batch date, color number, VOC content, environmental handling requirements and applications instructions.
- B. Store paint materials in tightly covered containers in well-ventilated areas with a minimum ambient temperature of 45 degrees F and a maximum of 90 degrees F, as required by manufacturer's instructions.

1.05 FIELD CONDITIONS

- A. Do not apply exterior materials during fog, rain, mist, or when inclement weather is expected within the dry time specified by the manufacturer.
- B. Do not commence exterior or interior painting until the surfaces are thoroughly dry and cured. Follow the manufacturer's instructions and precautions, including testing of moisture in substrates and humidity and temperature limitations.
- C. Do not apply when air or surface temperature are below 45°F or exceed 95° F. Avoid painting surfaces in direct sunlight.
- D. During application of coating materials, post "WET PAINT" signs.

PART 2 - PRODUCTS

2.01 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include:
 - 1. Farrell-Calhoun Paint, 221 E. Carolina Avenue, Memphis, TN 38126



2.02 MATERIALS

- A. **Material Quality:** Provide manufacturer's best quality material of the coating types specified. Provide paints and coatings capable of being readily and uniformly dispersed to complete homogeneous mixture. Provide paints that exhibit good flow and brushing properties and are capable of drying or curing free of streaks and sags.
- B. **Material Compatibility:** Provide materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.
- C. **VOC Content:**
 - 1. Provide coatings that comply with the most stringent requirements specified in the following:
 - a. 40 CFR 59, Subpart D – National Volatile Organic Compound Emission Standards for Architectural Coatings.
 - 2. **Determination of VOC Content:** Testing and calculation in accordance with 40 CFR 59, Subpart D (EPA Method 24), exclusive of colorants added to a tint base and water added at project site.
- D. **Colors:** Provide color samples provided by manufacturer of paint system approved for use. Match approved samples for color, texture and coverage.

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Do not begin application of coatings until substrates have been properly prepared and are ready to receive work as instructed by the product manufacturer.
- B. Examine surfaces scheduled to be finished prior to commencement of work. Verify suitability of substrates, including surface conditions and compatibility with existing finishes and primers. Where acceptability of substrate conditions is in question, apply samples and perform on site testing to verify compatibility, adhesion and film integrity of new paint application. Report any condition that may potentially affect proper application.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.



- D. Ensure that moisture-retaining substrates to receive coatings have moisture content within tolerances allowed by coating manufacturer, using moisture measurement techniques recommended by coating manufacturer. The maximum moisture content of substrates, when measured with an electronic moisture meter, are as follows:
1. Concrete: 12 %
 2. Masonry (Clay and CMU): 12%
 3. Wood: 15%
 4. Gypsum Board: 12%
 5. Plaster: 12%

3.02 PREPARATION

- A. Comply with manufacturer's written instructions and recommendations. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- B. Remove hardware and accessories, machined surfaces, plates, lighting fixtures and similar items in place and not-to-be-finished painted, or provide surface-applied protection. Reinstall removed items upon completion of work in each area.
- C. Clean surfaces thoroughly of substances that could impair bonds such as dust, dirt, oil, and grease. Remove or repair existing primers or coatings that are incompatible or exhibit surface defects.
- D. Correct construction defects prior to coating application.
- E. Seal surfaces that might cause bleed through or staining of topcoat.
- F. Remove mildew from surfaces with a solution of 1 part bleach to 3 parts water. Wear required protective equipment. Scrub mildewed surface if necessary, and rinse thoroughly with clean water and allow surface to dry.
- G. Concrete and Masonry Surfaces: Remove dirt, loose mortar, scale, efflorescence, chalk, form release agents and curing compounds. Do not paint surfaces if moisture content or alkalinity of surfaces to be painted exceeds that permitted by manufacturer's written instructions.
- H. Gypsum Board Surfaces: Fill minor defects with filler compound. Spot prime defects after repair. Surfaces must be completely dry and dust free before painting.
- I. Galvanized/Aluminum Surfaces: Remove any grease, oil or other surface contaminants. Remove loose surface oxidation.



- J. Ferrous Metal Surfaces: Remove oil, grease, loose primer, mill scale and rust by the method recommended by the paint manufacturer and in accordance with SSPC Specifications for the exposure applicable to the steel use.
- K. Wood Surfaces: Remove dust, grit and foreign matter from wood surfaces. Seal knots, pitch steaks and sappy sections with sealer before applying primer. Fill nail holes, cracks and other imperfections after primer has dried; sand between coats. Back prime concealed surfaces before installation.
- L. Existing Surfaces to be Recoated: Thoroughly clean and de-gloss. Remove loose or chalky paint prior to painting. Spot prime patched and bare areas with the recommended primer.
- M. Vinyl Siding / Architectural Plastics: Clean by scrubbing with a warm, soapy water solution and rinse thoroughly. Do not paint with any color darker than the original color to prevent warping.

3.03 APPLICATION

- A. Apply paint and coatings in accordance with the manufacturer's printed instructions. Use applicators and techniques best suited for the material and substrate indicated.
- B. Apply the specified number of coats and apply additional coats if required to achieve full hide and color uniformity.
- C. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry before the next coat is applied.
- D. Remove dust and other foreign materials from substrate immediately prior to applying each coat.

3.05 CLEANING AND PROTECTION

- A. Remove all rubbish, paint cans, and accumulated materials resulting from work in each space or room. Leave all areas in clean, orderly condition. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.
- B. Carefully remove all spattering, spots and blemishes caused by work under this Section from surfaces throughout the project.
- C. Protect work of other trades against damage from paint application. Correct damage to work of other trades by cleaning, repairing, replacing, and refinishing.



- D. Touch up and repaint defects in the painted surfaces including runs, sags, misses, holidays, stains, inadequate coverage and mil thickness.

3.06 EXTERIOR PAINT SYSTEMS

A. Exterior Concrete and Masonry Substrates

- 1. Latex System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic Bonding Primer 697
 - 2) FC 100% Acrylic Latex Undercoater 235
 - b. Intermediate Coat: Latex, exterior, matching topcoat.
 - c. Topcoat: Latex, exterior, flat.
 - 1) FC 100% Acrylic Exterior Flat Latex 200 Line
 - d. Topcoat: Latex, exterior, satin.
 - 1) FC 100% Acrylic Interior/Exterior Satin Enamel 2200 Line
 - 2) FC Durashield 100% Acrylic Exterior Satin Enamel 3200 Line
 - e. Topcoat: Latex, exterior, gloss.
 - 1) FC 100% Acrylic Exterior Gloss Enamel 2400 Line
- 2. Elastomeric System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic Bonding Primer 697
 - 2) FC 100% Acrylic Latex Undercoater 235
 - b. Intermediate Coat: Elastomeric, exterior, matching topcoat.
 - c. Topcoat: Elastomeric, exterior.
 - 1) FC 100% Acrylic Elastomeric Coating 2300
- 3. Water Repellent System:
 - a. First Flood Coat: Water repellent, acrylic siloxane, matching topcoat.
 - b. Second Flood Coat: Water repellent, acrylic siloxane.
 - 1) FC Tuff-Boy Acrylic-Siloxane Water Repellent 1107

B. Exterior Concrete substrates, Pedestrian Traffic Surfaces

- 1. Waterborne Floor Enamel System:
 - a. First Coat: Floor paint, acrylic urethane, matching topcoat.
 - b. Topcoat: Floor paint, acrylic urethane, satin.
 - 1) FC Tuff-Boy Waterborne Porch & Patio Satin Enamel 7500 Line
- 2. Alkyd Floor Enamel System:
 - a. First Coat: Floor paint, alkyd urethane, matching topcoat.
 - b. Topcoat: Floor paint, alkyd urethane, gloss.
 - 1) FC Tuff-Boy Floor & Deck Gloss Enamel 700 Line



C. Exterior CMU Substrates

1. Latex System:
 - a. Prime Coat: Block filler, latex, interior/exterior.
 - 1) FC Interior/Exterior Latex Masonry Block Filler 470
 - 2) FC Interior/Exterior Acrylic Latex Masonry Block Filler 470A
 - b. Intermediate Coat: Latex, exterior, matching topcoat.
 - c. Topcoat: Latex, exterior, flat.
 - 1) FC 100% Acrylic Exterior Flat Latex 200 Line
 - d. Topcoat: Latex, exterior, satin.
 - 1) FC 100% Acrylic Interior/Exterior Satin Enamel 2200 Line
 - 2) FC Durashield 100% Acrylic Exterior Satin Enamel 3200 Line
 - e. Topcoat: Latex, exterior, gloss.
 - 1) FC 100% Acrylic Exterior Gloss Enamel 2400 Line
2. Elastomeric System:
 - a. Filler Coat: Block filler, latex, interior/exterior.
 - 1) FC Interior/Exterior Latex Masonry Block Filler 470
 - 2) FC Interior/Exterior Acrylic Latex Masonry Block Filler 470A
 - b. Prime Coat: Latex, interior/exterior.
 - 1) FC 100% Acrylic Bonding Primer 697
 - c. Intermediate Coat: Elastomeric, exterior, matching topcoat.
 - d. Topcoat: Elastomeric, exterior.
 - 1) FC 100% Acrylic Elastomeric Coating 2300
3. Water Repellent System:
 - a. First Flood Coat: Water repellent, acrylic siloxane, matching topcoat.
 - b. Second Flood Coat: Water repellent, acrylic siloxane.
 - 1) FC Tuff-Boy Acrylic-Siloxane Water Repellent 1107

D. Exterior Ferrous Metal Substrates

1. Latex System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - b. Intermediate Coat: Latex, exterior, matching topcoat.
 - c. Topcoat: Latex, exterior, flat.
 - 1) FC 100% Acrylic Flat Latex 200 Line
 - d. Topcoat: Latex, exterior, satin.
 - 1) FC 100% Acrylic Interior/Exterior Satin Enamel 2200 Line
 - 2) FC Durashield 100% Acrylic Exterior Satin Enamel 3200 Line
 - e. Topcoat: Latex, exterior, gloss.
 - 1) FC 100% Acrylic Exterior Gloss Enamel 2400 Line



2. Waterborne Light Industrial System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - b. Intermediate Coat: DTM, interior/exterior, matching topcoat.
 - c. Topcoat: DTM, interior/exterior, semi-gloss.
 - 1) FC Tuff-Boy 100% Acrylic Waterborne DTM Enamel 8000 Line

 3. Alkyd Industrial Enamel System:
 - a. Prime Coat: Primer, alkyd, interior/exterior.
 - 1) FC Tuff-Boy Rust Stop Primer, White 1022, Red 1025, Gray 1069
 - b. Intermediate Coat: Alkyd, interior/exterior, matching topcoat.
 - c. Topcoat: Alkyd, interior/exterior, gloss.
 - 1) FC Tuff-Boy Industrial Gloss Enamel 800 Line
- E. Exterior Galvanized and Aluminum Substrates
1. Latex System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - 2) FC 100% Acrylic Latex Bonding Primer 697
 - b. Intermediate Coat: Latex, exterior, matching topcoat.
 - c. Topcoat: Latex, exterior, flat.
 - 1) FC 100% Acrylic Exterior Latex 200 Line
 - d. Topcoat: Latex, exterior, satin.
 - 1) FC 100% Acrylic Interior/Exterior Satin Enamel 2200 Line
 - 2) FC Durashield 100% Acrylic Exterior Satin Enamel 3200 Line
 - e. Topcoat: Latex, exterior, gloss.
 - 1) FC 100% Acrylic Exterior Gloss Enamel 2400 Line

 2. Waterborne Light Industrial System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - b. Intermediate Coat: DTM, interior/exterior, matching topcoat.
 - c. Topcoat: DTM, interior/exterior, semi-gloss.
 - 1) FC Tuff-Boy 100% Acrylic Waterborne DTM Enamel 8000 Line

 3. Alkyd Industrial Enamel System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - b. Intermediate Coat: Alkyd, interior/exterior, matching topcoat.
 - c. Topcoat: Alkyd, interior/exterior, gloss.
 - 1) FC Tuff-Boy Industrial Gloss Enamel 800 Line



F. Exterior Wood Substrates

1. Latex System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic Latex Undercoater 235
 - b. Intermediate Coat: Latex, exterior, matching topcoat.
 - c. Topcoat: Latex, exterior, flat.
 - 1) FC 100% Acrylic Flat Latex 200 Line
 - d. Topcoat: Latex, exterior, satin.
 - 1) FC 100% Acrylic Interior/Exterior Satin Enamel 2200 Line
 - 2) FC Durashield 100% Acrylic Exterior Satin Enamel 3200 Line
 - e. Topcoat: Latex, exterior, gloss.
 - 1) FC 100% Acrylic Exterior Gloss Enamel 2400 Line
2. Alkyd System:
 - a. Prime Coat: Primer, alkyd, exterior.
 - 1) FC Oil-Based Undercoater 160
 - b. Intermediate Coat: Alkyd, exterior, matching topcoat.
 - c. Topcoat: Alkyd, exterior, gloss.
 - 1) FC Alkyd Exterior Gloss Enamel 100
3. Waterborne Wiping Stain System:
 - a. Stain Coat: Stain, waterborne, interior/exterior.
 - 1) FC Wood Kraft Waterborne Penetrating Wiping Stain 1500
 - b. Intermediate Coat: Waterborne spar varnish, exterior, matching topcoat.
 - c. Topcoat: Waterborne spar varnish, exterior, flat.
 - 1) FC Wood Kraft WB Acrylic-Polyurethane Spar Varnish 1163
 - c. Topcoat: Waterborne spar varnish, exterior, satin.
 - 1) FC Wood Kraft WB Acrylic-Polyurethane Spar Varnish 1162
 - d. Topcoat: Waterborne spar varnish, exterior, semi-gloss.
 - 1) FC Wood Kraft WB Acrylic-Polyurethane Spar Varnish 1161
 - e. Topcoat: Waterborne spar varnish, exterior, gloss.
 - 1) FC Wood Kraft WB Acrylic-Polyurethane Spar Varnish 1160
4. Oil-Based Wiping Stain System:
 - a. Stain Coat: Stain, oil-alkyd, interior/exterior.
 - 1) FC Wood Kraft Penetrating Wiping Stains 1110/1400
 - b. Intermediate Coat: Spar varnish, exterior, matching topcoat.
 - c. Topcoat: Polyurethane spar varnish, exterior, satin.
 - 1) FC Wood Kraft Clear Polyurethane Satin Spar Varnish 1132
 - d. Topcoat: Polyurethane spar varnish, exterior, gloss.
 - 1) FC Wood Kraft Gloss Polyurethane Gloss Spar Varnish 1130



5. Waterborne Solid Hide Stain System:
 - a. First coat: Solid hide stain, latex, exterior, matching topcoat.
 - b. Topcoat : Solid hide stain, latex, exterior, flat.
 - 1) FC 100% Acrylic Exterior Latex Stain 260 Line

6. Oil-Based Solid Hide Stain System:
 - a. First coat: Solid hide stain, oil, exterior, matching topcoat.
 - b. Topcoat : Solid hide, stain, oil, exterior, satin.
 - 1) FC Wood Kraft Exterior Oil-Base Stain, Clear Base 171
 - 2) FC Wood Kraft Exterior Oil-Base Stain, White Base 174

- G. Exterior Wood Substrates, Pedestrian Traffic Surfaces
 1. Waterborne Floor Enamel System (Dimensionally Stable Wood):
 - a. First Coat: Floor paint, acrylic urethane, matching topcoat.
 - b. Topcoat: Floor paint, acrylic urethane, satin.
 - 1) FC Tuff-Boy Waterborne Porch & Patio Satin Enamel 7500 Line

 2. Oil-Based Floor Enamel System (Dimensionally Stable Wood):
 - a. First Coat: Floor paint, alkyd urethane, matching topcoat.
 - b. Topcoat: Floor paint, alkyd urethane, gloss.
 - 1) FC Tuff-Boy Floor & Deck Gloss Enamel 700 Line

 3. Solid Color Deck Stain System:
 - a. First Coat: Solid color stain, exterior, matching topcoat.
 - b. Topcoat: Solid color stain, exterior.
 - 1) FC Permastain Solid Color Deck Stain 7600 Line

 4. Semi-Transparent Color Deck Stain System:
 - a. First Coat: Semi-transparent color stain, exterior, matching topcoat.
 - b. Topcoat: Semi-transparent color stain, exterior.
 - 1) FC Permastain Semi-Transparent Color Deck Stain 7900 Line

- H. Exterior Gypsum Board Substrates
 1. Latex System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic Latex Undercoater 235
 - b. Intermediate Coat: Latex, exterior, matching topcoat.
 - c. Topcoat: Latex, exterior, flat.
 - 1) FC 100% Acrylic Exterior Flat Latex 200 Line



- d. Topcoat: Latex, exterior, satin.
 - 1) FC 100% Acrylic Interior/Exterior Satin Enamel 2200 Line
 - 2) FC Durashield 100% Acrylic Exterior Satin Enamel 3200 Line
- e. Topcoat: Latex, exterior, gloss.
 - 1) FC 100% Acrylic Exterior Gloss Enamel 2400 Line

3.07 INTERIOR PAINT SYSTEMS

A. Interior CMU Substrates

- 1. Latex System:
 - a. Prime Coat: Block filler, latex, interior/exterior.
 - 1) FC Interior/Exterior Latex Masonry Block Filler 470
 - 2) FC Interior/Exterior Acrylic Latex Masonry Block Filler 470A
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat.
 - 1) FC Premium Flat Latex 300 Line
 - d. Topcoat: Latex, interior, eggshell.
 - 1) FC Premium Latex Eggshell Enamel 370 Line
 - 2) FC Evergreen Lifetime Acrylic Eggshell Enamel 3900 Line
 - e. Topcoat: Latex, interior, satin.
 - 1) FC Latex Satin Enamel 670 Line
 - 2) FC 100% Acrylic Interior/Exterior Satin Enamel 2200 Line
 - f. Topcoat: Latex, interior, semi-gloss.
 - 1) FC 100% Acrylic Semi-Gloss Latex Enamel 600 Line
 - 2) FC Evergreen Lifetime 100% Acrylic Semi-Gloss Enamel 3300
 - g. Topcoat: Latex, interior, gloss.
 - 1) FC 100% Acrylic High Gloss Enamel 3000 Line
- 2. Alkyd System:
 - a. Prime Coat: Block filler, latex, interior/exterior.
 - 1) FC Interior/Exterior Latex Masonry Block Filler 470
 - 2) FC Interior/Exterior Acrylic Latex Masonry Block Filler 470A
 - b. Intermediate Coat: Alkyd, interior, matching topcoat.
 - c. Topcoat: Alkyd, interior, satin.
 - 1) FC Alkyd Satin Enamel 5200 Line
 - d. Topcoat: Alkyd, interior, semi-gloss.
 - 1) FC Alkyd Semi-Gloss Enamel 500 Line
 - e. Topcoat: Alkyd, interior, gloss.
 - 1) FC Alkyd High Gloss Enamel 580 Line



3. Waterborne Alkyd System:
 - a. Prime Coat: Block filler, latex, interior/exterior.
 - 1) FC Interior/Exterior Latex Masonry Block Filler 470
 - 2) FC Interior/Exterior Acrylic Latex Masonry Block Filler 470A
 - b. Intermediate Coat: Waterborne alkyd, interior, matching topcoat.
 - c. Topcoat: Waterborne alkyd, interior, semi-gloss.
 - 1) FC Waterborne Acrylic-Alkyd Semi-Gloss Enamel 5600 Line

4. Waterborne Epoxy System:
 - a. Prime Coat: Block filler, latex, interior/exterior.
 - 1) FC Interior/Exterior Latex Masonry Block Filler 470
 - 2) FC Interior/Exterior Acrylic Latex Masonry Block Filler 470A
 - b. Intermediate Coat: Waterborne epoxy, interior, matching topcoat.
 - c. Topcoat: Waterborne epoxy, interior, eggshell:
 - 1) FC Tuff-Boy Waterborne Pre-Cat Acrylic/Epoxy 1270 Line
 - d. Topcoat: Waterborne epoxy, interior, semi-gloss:
 - 1) FC Tuff-Boy Waterborne Pre-Cat Acrylic/Epoxy 1260 Line

B. Interior Ferrous Metal Substrates

1. Latex System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat.
 - 1) FC Premium Flat Latex 300 Line
 - d. Topcoat: Latex, interior, eggshell.
 - 1) FC Premium Latex Eggshell Enamel 370 Line
 - 2) FC Evergreen Lifetime Acrylic Eggshell Enamel 3900 Line
 - e. Topcoat: Latex, interior, satin.
 - 1) FC Latex Satin Enamel 670 Line
 - 2) FC 100% Acrylic Interior/Exterior Satin Enamel 2200 Line
 - f. Topcoat: Latex, interior, semi-gloss.
 - 1) FC 100% Acrylic Semi-Gloss Latex Enamel 600 Line
 - 2) FC Evergreen Lifetime 100% Acrylic Semi-Gloss Enamel 3300
 - g. Topcoat: Latex, interior, gloss.
 - 1) FC 100% Acrylic High Gloss Enamel 3000 Line

2. Alkyd System:
 - a. Prime Coat: Primer, alkyd, interior/exterior
 - 1) FC Tuff-Boy Rust Stop Primer, White 1022, Red 1025, Gray 1069
 - b. Intermediate Coat: Alkyd, interior, matching topcoat.
 - c. Topcoat: Alkyd, interior, satin.
 - 1) FC Alkyd Satin Enamel 5200 Line



- d. Topcoat: Alkyd, interior, semi-gloss.
 - 1) FC Alkyd Semi-Gloss Enamel 500 Line
- e. Topcoat: Alkyd, interior, gloss.
 - 1) FC Alkyd High Gloss Enamel 580 Line
- 3. Waterborne Light Industrial System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - b. Intermediate Coat: DTM, interior/exterior, matching topcoat.
 - c. Topcoat: DTM, interior/exterior, semi-gloss.
 - 1) FC Tuff-Boy 100% Acrylic Waterborne DTM Enamel 8000 Line
- 4. Alkyd Industrial Enamel System:
 - a. Prime Coat: Primer, alkyd, interior/exterior.
 - 1) FC Tuff-Boy Rust Stop Primer, White 1022, Red 1025, Gray 1069
 - b. Intermediate Coat: Alkyd, interior/exterior, matching topcoat.
 - c. Topcoat: Alkyd, interior/exterior, gloss.
 - 1) FC Tuff-Boy Industrial Gloss Enamel 800 Line
- 5. Waterborne Alkyd System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - b. Intermediate Coat: Waterborne alkyd, interior, matching topcoat.
 - c. Topcoat: Waterborne alkyd, interior, semi-gloss.
 - 1) FC Waterborne Acrylic-Alkyd Semi-Gloss Enamel 5600 Line
- 6. Waterborne Epoxy System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - b. Intermediate Coat: Waterborne epoxy, interior, matching topcoat.
 - c. Topcoat: Waterborne epoxy, interior, eggshell:
 - 1) FC Tuff-Boy Waterborne Pre-Cat Acrylic/Epoxy 1270 Line
 - d. Topcoat: Water-based light industrial coating, interior, semi-gloss:
 - 1) FC Tuff-Boy Waterborne Pre-Cat Acrylic/Epoxy 1260 Line
- 7. Waterborne Dry Fall System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - b. Intermediate Coat: Dry Fall, latex, interior, matching topcoat.
 - c. Topcoat: Dry Fall, latex, interior, flat.
 - 1) FC Tuff-Boy Waterborne Flat Dry Fall 999 Line
 - d. Topcoat: Dry Fall, latex, interior, satin.
 - 1) FC Tuff-Boy Waterborne Satin Dry Fall 992
 - e. Topcoat: Dry Fall, latex, interior/exterior, semi-gloss.
 - 1) FC Tuff-Boy 100% Acrylic Interior/Exterior DTM Dry Fall 8995



8. Oil-Based Dry Fall System:
 - a. Topcoat: Dry fall, alkyd, interior, flat.
 - 1) FC Tuff-Boy Oil-Based Flat Dry Fall 990
 - b. Topcoat: Dry fall, alkyd, interior, semi-gloss.
 - 1) FC Tuff-Boy Oil-Based Semi-Gloss Dry Fall 954

C. Interior Galvanized and Aluminum Substrates

1. Latex System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - 2) FC 100% Acrylic Bonding Latex Primer 697
 - b. Intermediate Coat: Latex, interior/exterior, matching topcoat.
 - c. Topcoat: Latex, interior, flat.
 - 1) FC Premium Flat Latex 300 Line
 - d. Topcoat: Latex, interior, eggshell.
 - 1) FC Premium Latex Eggshell Enamel 370 Line
 - 2) FC Evergreen Lifetime Acrylic Eggshell Enamel 3900 Line
 - e. Topcoat: Latex, interior, satin.
 - 1) FC Latex Satin Enamel 670 Line
 - 2) FC 100% Acrylic Interior/Exterior Satin Enamel 2200 Line
 - f. Topcoat: Latex, interior, semi-gloss.
 - 1) FC 100% Acrylic Semi-Gloss Latex Enamel 600 Line
 - 2) FC Evergreen Lifetime 100% Acrylic Semi-Gloss Enamel 3300
 - g. Topcoat: Latex, interior, gloss.
 - 1) FC 100% Acrylic High Gloss Enamel 3000 Line
2. Alkyd System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - 2) FC 100% Acrylic Bonding Latex Primer 697
 - b. Intermediate Coat: Alkyd, interior, matching topcoat.
 - c. Topcoat: Alkyd, interior, satin.
 - 1) FC Alkyd Satin Enamel 5200 Line
 - d. Topcoat: Alkyd, interior, semi-gloss.
 - 1) FC Alkyd Semi-Gloss Enamel 500 Line
 - e. Topcoat: Alkyd, interior, gloss.
 - 1) FC Alkyd High Gloss Enamel 580 Line
3. Waterborne Light Industrial System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - b. Intermediate Coat: DTM, interior/exterior, matching topcoat.
 - c. Topcoat: DTM, interior/exterior, semi-gloss.
 - 1) FC Tuff-Boy 100% Acrylic Waterborne DTM Enamel 8000 Line



4. Alkyd Industrial Enamel System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - b. Intermediate Coat: Alkyd, interior/exterior, matching topcoat.
 - c. Topcoat: Alkyd, interior/exterior, gloss.
 - 1) FC Tuff-Boy Industrial Gloss Enamel 800 Line

5. Waterborne Alkyd System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - 2) FC 100% Acrylic Bonding Latex Primer 697
 - b. Intermediate Coat: Waterborne alkyd, interior, matching topcoat.
 - c. Topcoat: Waterborne alkyd, interior, semi-gloss.
 - 1) FC Waterborne Acrylic-Alkyd Semi-Gloss Enamel 5600 Line

6. Waterborne Epoxy System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - 2) FC 100% Acrylic Bonding Latex Primer 697
 - b. Intermediate Coat: Waterborne epoxy, interior, matching topcoat.
 - c. Topcoat: Waterborne epoxy, interior, eggshell.
 - 1) FC Tuff-Boy Waterborne Pre-Cat Acrylic/Epoxy 1270 Line
 - d. Topcoat: Waterborne epoxy, interior, semi-gloss.
 - 1) FC Tuff-Boy Waterborne Pre-Cat Acrylic/Epoxy 1260 Line

7. Waterborne Dry Fall System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - b. Intermediate Coat: Dry fall, latex, interior, matching topcoat.
 - c. Topcoat: Dry fall, latex, interior, flat.
 - 1) FC Tuff-Boy Waterborne Flat Dry Fall 999 Line
 - d. Topcoat: Dry fall, latex, interior, satin.
 - 1) FC Tuff-Boy Waterborne Satin Dry Fall 992
 - e. Topcoat: Dry fall, latex, interior/exterior, semi-gloss.
 - 1) FC Tuff-Boy Interior/Exterior 100% Acrylic DTM Dry Fall 8995

8. Oil-Based Dry Fall System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC 100% Acrylic All Purpose DTM Primer 5-56
 - b. Topcoat: Dry fall, alkyd, interior, flat.
 - 1) FC Tuff-Boy Oil-Based Flat Dry Fall 990
 - c. Topcoat: Dry fall, alkyd, interior, semi-gloss.
 - 1) FC Tuff-Boy Oil-Based Semi-Gloss Fall 954



D. Interior Wood Substrates

1. Latex System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC Waterborne 100% Acrylic Enamel Undercoater 699
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat.
 - 1) FC Premium Flat Latex 300 Line
 - d. Topcoat: Latex, interior, eggshell.
 - 1) FC Premium Latex Eggshell Enamel 370 Line
 - 2) FC Evergreen Lifetime Acrylic Eggshell Enamel 3900 Line
 - e. Topcoat: Latex, interior, satin.
 - 1) FC Latex Satin Enamel 670 Line
 - 2) FC 100% Acrylic Interior/Exterior Satin Enamel 2200 Line
 - f. Topcoat: Latex, interior, semi-gloss.
 - 1) FC 100% Acrylic Semi-Gloss Latex Enamel 600 Line
 - 2) FC Evergreen Lifetime 100% Acrylic Semi-Gloss Enamel 3300
 - g. Topcoat: Latex, interior, gloss.
 - 1) FC 100% Acrylic High Gloss Enamel 3000 Line
2. Alkyd System:
 - a. Prime Coat: Primer, alkyd, interior.
 - 1) FC Alkyd Enamel Undercoater 599
 - b. Intermediate Coat: Alkyd, interior, matching topcoat.
 - c. Topcoat: Alkyd , interior, satin.
 - 1) FC Alkyd Satin Enamel 5200 Line
 - d. Topcoat: Alkyd , interior, semi-gloss.
 - 1) FC Alkyd Semi-Gloss Enamel 500 Line
 - e. Topcoat: Alkyd, interior, gloss.
 - 1) FC Alkyd High Gloss Enamel 580 Line
3. Waterborne Alkyd System:
 - a. Prime Coat: Primer, latex, interior.
 - 1) FC Waterborne 100% Acrylic Enamel Undercoater 699
 - b. Intermediate Coat: Waterborne alkyd, interior, matching topcoat.
 - c. Topcoat: Waterborne alkyd, interior, semi-gloss.
 - 1) FC Waterborne Acrylic-Alkyd Semi-Gloss Enamel 5600 Line
4. Waterborne Epoxy System:
 - a. Prime Coat: Primer, latex, interior/exterior.
 - 1) FC Waterborne 100% Acrylic Enamel Undercoater 699
 - b. Intermediate Coat: Waterborne epoxy, interior, matching topcoat.
 - c. Topcoat: Waterborne epoxy, interior, eggshell:
 - 1) FC Tuff-Boy Waterborne Pre-Cat Acrylic/Epoxy 1270 Line



- d. Topcoat: Waterborne epoxy, interior, semi-gloss:
 - 1) FC Tuff-Boy Waterborne Pre-Cat Acrylic/Epoxy 1260 Line

- 5. Waterborne Stain System:
 - a. Stain Coat: Stain, waterborne, interior/exterior.
 - 1) FC Wood Kraft Waterborne Penetrating Wiping Stain 1500
 - b. Intermediate Coat: Waterborne, interior, matching topcoat.
 - c. Topcoat: Waterborne varnish, interior, satin.
 - 1) FC Wood Kraft WB Acrylic Polyurethane Varnish 1192
 - d. Topcoat: Waterborne varnish, interior, semi-gloss.
 - 1) FC Wood Kraft WB Acrylic Polyurethane Semi-Gloss 1191
 - e. Topcoat: Waterborne varnish, interior, gloss.
 - 1) FC Wood Kraft WB Acrylic Polyurethane Gloss 1190

- 6. Alkyd Stain System:
 - a. Stain Coat: Stain, oil-alkyd, interior/exterior.
 - 1) FC Wood Kraft Penetrating Wiping Stains 1110/1400
 - b. Intermediate Coat: Alkyd, interior, matching topcoat.
 - c. Topcoat: Polyurethane, alkyd varnish, interior, satin.
 - 1) FC Wood Kraft Satin Polyurethane Varnish 1122
 - d. Topcoat: Polyurethane, alkyd varnish, interior, gloss.
 - 1) FC Wood Kraft Gloss Polyurethane Varnish 1120

- E. Interior Wood Substrates (Dimensionally Stable), Pedestrian Traffic Surfaces
 - 1. Waterborne Floor Enamel System:
 - a. First Coat: Floor paint, acrylic urethane, matching topcoat.
 - b. Topcoat: Floor paint, acrylic urethane, satin.
 - 1) FC Tuff-Boy Waterborne Porch & Patio Satin Enamel 7500 Line

 - 2. Alkyd Floor Enamel System:
 - a. First Coat: Floor paint, alkyd urethane, matching topcoat.
 - b. Topcoat: Floor paint, alkyd urethane, gloss.
 - 1) FC Tuff-Boy Floor & Deck Gloss Enamel 700 Line

- F. Interior Gypsum Board Substrates
 - 1. Latex System:
 - a. Prime Coat: Primer, latex, interior.
 - 1) FC Perfik-Seal Latex Wall Primer/Sealer 380
 - b. Intermediate Coat: Latex, interior, matching topcoat.
 - c. Topcoat: Latex, interior, flat.
 - 1) FC Premium Flat Latex 300 Line



- d. Topcoat: Latex, interior, eggshell.
 - 1) FC Premium Latex Eggshell Enamel 370 Line
 - 2) FC Evergreen Lifetime Acrylic Eggshell Enamel 3900 Line
 - e. Topcoat: Latex, interior, satin.
 - 1) FC Premium Latex Satin Enamel 670 Line
 - 2) FC 100% Acrylic Interior/Exterior Satin Enamel 2200 Line
 - f. Topcoat: Latex, interior, semi-gloss.
 - 1) FC 100% Acrylic Semi-Gloss Latex Enamel 600 Line
 - 2) FC Evergreen Lifetime 100% Acrylic Semi-Gloss Enamel 3300
 - g. Topcoat: Latex, interior, gloss.
 - 1) FC 100% Acrylic High Gloss Enamel 3000 Line
2. Alkyd System:
- a. Prime Coat: Primer, latex, interior.
 - 1) FC Perfik-Seal Latex Wall Primer/Sealer 380
 - b. Intermediate Coat: Alkyd, interior, matching topcoat.
 - c. Topcoat: Alkyd, interior, satin.
 - 1) FC Alkyd Satin Enamel 5200 Line
 - d. Topcoat: Alkyd, interior, semi-gloss.
 - 1) FC Alkyd Semi-Gloss Enamel 500 Line
 - e. Topcoat: Alkyd, interior, gloss.
 - 1) FC Alkyd High Gloss Enamel 580 Line
3. Waterborne Alkyd System:
- a. Prime Coat: Primer, latex, interior.
 - 1) FC Perfik-Seal Latex Wall Primer/Sealer 380
 - b. Intermediate Coat: Waterborne alkyd, interior, matching topcoat.
 - c. Topcoat: Waterborne alkyd, interior, semi-gloss.
 - 1) FC Waterborne Acrylic-Alkyd Semi-Gloss Enamel 5600 Line
4. Waterborne Epoxy Coating:
- a. Prime Coat: Primer, latex, interior.
 - 1) FC Perfik-Seal Latex Wall Primer/Sealer 380
 - b. Intermediate Coat: Waterborne epoxy coating, interior, matching topcoat.
 - c. Topcoat: Waterborne epoxy, interior, eggshell.
 - 1) FC Tuff-Boy Waterborne Pre-Cat Acrylic/Epoxy 1270 Line
 - d. Topcoat: Waterborne epoxy, interior, semi-gloss.
 - 1) FC Tuff-Boy Waterborne Pre-Cat Acrylic/Epoxy 1260 Line

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