

SECTION 09 97 13.16 - ELECTROSTATICALLY APPLIED COATING

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Application of electrostatic coating systems including surface preparation, prime coats and topcoats.
2. Items to be electrostatically painted include the following:
 - a. Surfaces of metal shelving.
 - b. Existing and relocated Refrigerated Cases per Alternate No. 4.

1.2 SUBMITTALS

A. Product Data: For each type of product indicated.

B. Samples: Of each color for review of color only.

1. Provide samples of each color and material to be applied, with texture to simulate actual conditions, on draw down display cards.

1.3 QUALITY ASSURANCE

A. Applicator Qualifications: A firm or individual experienced in applying electrostatic coatings similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance.

B. Source Limitations: Obtain primers for each coating system from the same manufacturer as the finish coats.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to Project site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label and the following information:

1. Product name or title of material.
2. Product description (generic classification or binder type).
3. Manufacturer's stock number and date of manufacture.
4. Contents by volume, for pigment and vehicle constituents.
5. Thinning instructions.
6. Application instructions.
7. Color name and number.
8. VOC content.

- B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 deg F. Maintain storage containers in a clean condition, free of foreign materials and residue.

1. Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily.

1.5 PROJECT CONDITIONS

1. Apply electrostatic coatings only when temperatures of surfaces to be painted and surrounding air are between 50 and 90 deg F.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. General: Provide coatings specifically compounded by manufacturer for electrostatic spray application. Where primers are indicated or required, provide only primers that are approved by manufacturer for use with finish coating materials.
- B. Metal Cleaner: Biodegradable cleaner and degreaser.
1. Basis-of-Design Product: Accessa Coatings Solutions; RCHD Citaprep Cleaner.
- C. Primer: Rust inhibitive, anti-corrosive metal primer and barrier coat, resistant to finish coats containing strong solvents.
1. Basis-of-Design Product: Accessa Coatings Solutions; Universal InviraPrime.
- D. Electrostatic Epoxy Enamel: Two-component polyamide epoxy enamel.
1. Basis-of-Design Product: Accessa Coatings Solutions; InviraPoxy.
 2. Color: As specified in Fixture Finish Reference Guide located on Owner's Project Management Website (PMW) at Files>Capital>Design Data and Requirements>Décor.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Surface Preparation and Cleaning: Before applying electrostatic paint, clean metal surfaces of substances that could impair bond of the electrostatic paint. Remove surface contamination such as, oil, grease, loose paint, mill scale, dirt, foreign matter, rust, mold and mildew to assure sound bonding to the tightly adhered existing paint.
1. Scrape loose, blistered, scratched or otherwise imperfect paint down to bare metal and sand adjacent tightly adhering paint down to feather edge.

2. Degrease and clean surfaces by wet sanding, rinsing with clean water and wiping down with metal cleaner. Rinse with warm water and wipe down with clean rags until surface is dry.
- B. Provide surface-applied protection before application of electrostatic paint.
1. Mask items not to be painted.
 2. If item to be painted is attached to substrate, provide masking on existing floors, walls and columns and other adjacent surfaces.
- C. Material Preparation: Mix and prepare electrostatic paint materials according to manufacturer's written instructions.
1. Use only thinners approved by electrostatic paint manufacturer and only within recommended limits.

3.2 APPLICATION

- A. General: Apply electrostatic paint according to manufacturer's written instructions. Use applicators and techniques best suited for substrate and type of material being applied.
1. Do not paint over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to formation of a durable paint film.
 2. Provide finish coats that are compatible with primers used.
- B. Scheduling Painting: Apply primer coat to surfaces that have been cleaned and prepared for electrostatic painting as soon as practicable after preparation and before subsequent surface deterioration.
1. Do not apply succeeding coats until previous coat has cured as recommended by manufacturer.
 2. If undercoats, stains, or other conditions show through final coat of electrostatic paint, apply additional coats until paint film is of uniform finish, color, and appearance. Give special attention to ensure that edges, corners, crevices, welds, and exposed fasteners receive a dry film thickness equivalent to that of flat surfaces.
- C. Application Procedures: Apply electrostatic paints by Ramsburg #2 electrostatic deposition method.
- D. Prime Coats: Before applying finish coats, electrostatically apply rust inhibitive primer to act as an intermediate coat between existing painted surfaces and new coating.
- E. Finish Coats: Electrostatically apply finish coats completely covering surfaces to provide a smooth, opaque surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections will not be acceptable.
1. Over primer apply a dustcoat of finish paint in order to prevent runs and stop lifting.
 2. Apply final coat of paint of uniform film thickness and with a smooth and clean appearance.

- F. Completed Work: Match approved samples for color, texture, and coverage. Repaint work not complying with requirements.

3.3 CLEANING

- A. Cleanup: At the end of each workday, remove masking, empty cans, rags, rubbish, and other discarded paint materials from Project site.
 - 1. After completing painting, clean adjacent paint-spattered surfaces. Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces.

3.4 PROTECTION

- A. Protect adjacent construction against damage from electrostatic painting. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Owner.
- B. Provide "Wet Paint" signs to protect newly painted finishes.

END OF SECTION 09 97 13.16