

PART 1 - GENERAL

1.0 DESCRIPTION

- A. Provide all labor and materials for surface cleaning, preparation, and application of exterior surface coatings; including, but not limited to the following:
 - 1. Preparation and painting of exterior surfaces of the project including
_Exterior panels located from roof to first floor on 4 elevations.
- B. Related Sections include the following:
 - 1. Division I Sections
 - 2. Division 7 Section 07920 - JOINT SEALANTS

1.2 REFERENCES

- A. ASTM D16 - Definitions of Terms Relating to Paint, Varnish, Lacquer, and Related Products.
- B. NPCA (National Paint and Coatings Association) - Guide to US Government Paint Specifications.
- C. AAMA 2605-98 - Voluntary Specification, Performance Requirements and Test Procedures for - SUPERIOR PERFORMING ORGANIC COATINGS ON ALUMINUM EXTRUSIONS AND PANELS

1.3 DEFINITIONS

Conform to ASTM D16 for interpretation of terms used in this Section.

1.4 SUBMITTALS

- A. Product Data: Provide manufacturer's published product data on all exterior coating products including physical properties and performance characteristics
- B. Manufacturer's Installation Instructions: Indicate special surface preparation procedures, and substrate conditions requiring special attention.
- C. Manufacturer's maintenance instructions.

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1.5 FIELD MOCKUPS

- A. Provide field mock-ups consisting of approximately 300 square feet to illustrate the coating color, texture, and finish.
- B. Install field mockups at location determined by Owner and Arch.
- C. The Owner and the Architect shall review field mockups installed for acceptability of quality of finish. Accepted area will serve as the standard for the work.
- D. Accepted mockup may remain as part of the Work.

1.6 QUALITY ASSURANCE

- A. Exterior coating materials shall be applied evenly in accordance with manufacturer's directions and printed specifications.
- B. Finish surfaces shall conform to AAMA 2605-13, 4.2. "Coating shall be visibly free from flow lines, streaks, blisters or other surface imperfections in the dry-film state on exposed surfaces when observed at a distance of 3m (10 feet) from the metal surface and inspected at an angle of 90 degrees to the surface".
- C. The coating shall be applied to meet the dry-film thickness specification of the manufacturer and per AAMA 2605-13, 4.3
- D. All work shall be subject to acceptance by the owner. The Contractor shall correct Work that does not comply with the specifications.

1.7 QUALIFICATIONS

- A. Manufacturer's Qualifications: Company with at least 20 years of experience specializing in the manufacture of high performance architectural coatings equal to those specified in this section
- B. Contractor's Qualifications: Manufacturer approved specialty contractor with a record of successful in-service performance and application of paints and coatings similar to the material, design, and extent of the work described in this section.

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1. Pre-qualified Contractor: Stuart Dean Company, Inc. meets the Contractors Qualifications requirements for the work of this section.
 2. Rex Dean Global Director Façade Restoration 201-650-5490
rdean@stuartdean.com
 3. Other proposed contractors for the work of this section must submit a successful record of completion for projects of the same scale and nature, including the type of coating system specified herein, to be considered qualified for approval.
 4. Proposed specialty contractors for the work of this section must be submitted for approval to Owner not less than five (5) days business days before the bids due date.
 5. Prior to award of contract, the contractor proposed for the work of this section will be required upon request, to give an oral technical presentation to include the following topics:
 - a. Review of qualifications for company and personnel
 - b. Describe jobs of similar size and type completed in recent years
 - c. Describe process and order that tasks would be performed
 - d. Describe how rigging would be used with safety precautions
 - e. Describe precaution taken to prevent adverse effects caused by the work to façade surfaces
 - f. Describe precautions taken to protect personnel, vehicles and vegetation below
 - g. Describe the chemicals proposed for use and how they will be used and stored
 - h. Describe approach for getting the work done within the time frame specified and the effect of weather on the work
 - i. Describe the level of supervision that will be on the job
 - j. Describe other considerations related to surface treatment now and the effects on maintenance schedules in the future
 - k. Respond to Q & A
- C. Technicians Qualifications: Workers thoroughly skilled and specially trained in the techniques for applying paints and coatings.

1.8 REGULATORY REQUIREMENTS

- A. Conform to applicable federal, state, and local regulatory requirements.
- B. Flammable Liquids: Observe regulations regarding flammable liquids such as posting "No Smoking" signs. Allow no open flames, welding, or other ignition sources in the work area.

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- C. Conform to all applicable laws, codes, and regulations for disposal of all materials, debris, and containers.
- D. Exterior coating materials shall be VOC compliant.

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Deliver products to site in Manufacturer's original sealed containers with labels intact and legible; inspect to verify acceptability.
- B. Container labels shall include manufacturer's name, type of material, brand name, lot number, brand code and color designation
- C. Store materials at minimum ambient temperature of 45° F and a maximum of 90° F, in ventilated area and as required by manufacturer's storage instructions.
- D. Store flammable materials to protect from fire hazards and spontaneous combustion.
- E. Remove all materials and empty containers from the area of work at the close of each day.

1.10 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply coatings to wet or damp surfaces, or when relative humidity is outside the ranges required by the product manufacturer or when rain is imminent.
- B. Minimum Application Temperatures: 50° F. unless required otherwise by manufacturer's instructions. Minimum temperature shall be maintained at a minimum of 24 hours prior to and 48 hours following application.
- C. Provide additional lighting if needed to illuminate the substrate surface during coating application

1.11 EXTRA MATERIALS

- A. Upon request, provide 1 gallon of each color and type to Owner.
- B. Label each sealed container with color, type, texture, etc

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Manufacturers:

1. APV Engineered Coatings, Inc.
1390 Firestone Parkway Akron, Ohio 44301 USA
800.772.3452 sales@apvcoatings.com www.apvcoatings.com

B. Substitutions: refer to Section 2.3 - Product Requirements

2.2 MATERIALS

- A. Paint Coatings: Product designed for field application containing uniformly dispersed pigments in a homogeneous coating with good flow properties; capable of air-drying or curing free of discoloration
- B. Materials shall not be altered except for reducing in accordance with the recommendations of the manufacturer
- C. Colors: All paints colors shall be custom tinted by the manufacturer for each finish product specified as selected by the Owner.

2.3 PAINT SCHEDULE

A. Metal - _(substrate):_(finish type/color)

1. Prime Coat: APV Engineered Coatings W-1650 Primer
2. Finish Topcoat: APV Engineered Coatings NeverFade® with Kynar Aquatec® PVDF Exterior Paint

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.
- B. Examine surfaces scheduled to be finished before commencement of work Report any condition that may potentially affect proper application.

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3.2 PREPARATION - SURFACES TO RECEIVE PAINT FINISH

- A. Surface Appointments: Remove or mask electrical plates, hardware, light fixtures, trim, escutcheons, and fittings prior to preparing surfaces or finishing. Store and protect from damage and reinstall after completion of the work.
- B. Surfaces: Clean all exterior surfaces to be coated of all dirt, dust, oil, grease, oxidized, loose and scaling paint, mildew, rust on metal and other foreign matter. Do not apply coating over existing caulking or joint sealants. To the extent possible, apply the coating system into the joint slot where sealants have been removed before the application of new joint sealants.
- C. Remove all portions of existing coatings that exhibit loose surface defects.
- D. Mechanical Abrade to create a 1.0 mil profile
- E. Metal Surfaces: Remove contamination and solvent washing. Apply primer following cleaning as quickly as possible.
- F. Prepare substrate in accordance with manufacturer's application instructions

3.3 APPLICATION

- A. Apply products in accordance with manufacturer's instructions
- B. Do not apply finishes to surfaces that are not dry. Allow applied coats to dry as required before next coat is applied.
- C. Batch-mix multiple containers of a single color to assure a continuous balance of ingredients.
- D. Clean surfaces free of loose particles using a tack cloth just prior to applying coatings.
- E. Allow applied coat to dry before next coat is applied.

3.4 FIELD QUALITY CONTROL

Contractor shall field inspect the work upon initial completion. All non-complying work shall be corrected as required.

3.5 PROTECTION

- A. Protect all adjacent materials and surfaces including landscaping and roofing from damage during all work including cleaning, preparation, and application of exterior coating materials. Notify Site manager of any on-site or adjacent property such as parked vehicles, bicycles, landscaping, etc, which may be damaged from coating operations overhead. Provide protection of grade-level horizontal surface to the extent possible.
- B. Contractor shall replace all materials in kind that are damaged during work of this section.
- C. Touch-up and restore damaged or defaced coated surfaces that occur as a result of the work of this section.

3.6 CLEANING

- A. Remove spills and overspray from adjacent surface.
- B. Legally dispose of debris in accordance with local, state, and federal regulations.

END OF SECTION