SECTION 08592
WOOD WINDOW REPAINTING

PART 1 - GENERAL

1.1 SUMMARY

A. This Section includes the following:

1. All labor, materials, tools and other equipment, services and supervision required to complete all exterior and interior painting of wood windows.

2. Surface preparation and applications of paint systems on wood windows.

B. Related Sections include the following:

1. Section 08591 - Wood Window Repair

1.2 DEFINITIONS

A. Gloss Level 2: Not more than 10 units at 60 degrees and 10 to 35 units at 85 degrees, according to ASTM D 523.

1.3 SUBMITTALS

A. Product Data: Submit manufacturer's technical data for each product indicated, including the manufacturers’ recommendations for their preparation, application and use. Include test reports and certifications substantiating that products comply with specified requirements.

B. Samples for Verification: for each type of paint system and each color and gloss of topcoat.

1. Provide “brushout” sample on rigid backing, min. 8 inches square

2. Label each coat of each sample

3. Label each sample for location and application area.

1.4 QUALITY ASSURANCE

A. All work shall be performed by a firm having not less than five (5) years successful experience in comparable painting projects.

1.5 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 degrees F (7 degrees C).

1. Maintain containers in clean condition, free of foreign materials and residue.

2. Remove rags and waste from storage areas daily.

1.6 PROJECT CONDITIONS
A. Do not apply primers or finish coats under direct sunlight or within an hour of direct sunlight.

B. Apply paints only when temperature of surfaces to be painted and ambient air temperatures are between 50 and 95 degrees F (10 and 35 degrees C).

C. Do not apply paints in rain, fog or mist; 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.

D. Comply with manufacturer’s recommendations for applying paint. Should discrepancies between this specification and the manufacturer’s recommendations occur, consult with Architect.

PART 2 - PRODUCTS

2.1 PAINT, GENERAL

A. MPI Provide products that comply with MPI standards indicated and that are listed in its "MPI Approved Products List."

B. 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.
   3. VOC Content: Provide materials that comply with VOC limits of authorities having jurisdiction.

2.2 COATING AND PAINTING SYSTEMS

A. Paint System for Wood:
   1. Finish Coats: Kelly Moore Acry-Shield 1245 paint – two coats at 1.75 mils minimum DFT per coat.
      i. Colors: Carbon Black, to match the existing wood windows and subject to the approval of the Campus Architect
      ii. Gloss: Gloss Level 2, Low Sheen
   2. Primer: Kelly Moore 255 Acry-Shield Primer – one coat at 1.5 mils minimum DFT.
   3. or substitute that complies with the General Requirements and is approved by the Campus Architect.

2.3 Miscellaneous

A. Glazing compound: Dap 33 by Dap, Inc. 2400 Boston Street, Baltimore, ML 21224, www.dap.com, or equal.

C. Hardware: where required to operate window sash, to match existing.

PART 3- EXECUTION

2.4 EXAMINATION

A. Examine substrates and conditions under which coatings will be applied for compliance with requirements on applying coatings. Surfaces to receive coatings must be thoroughly clean, dry, dull and free of oil, grease and other contaminants prior to application of coatings.

1. Do not proceed with coating application until unsatisfactory conditions have been corrected.

2. Start of application will be construed as the Applicator's acceptance of surfaces within that particular area.

B. Coordinating Work: Review sections in which other coatings are provided to ensure compatibility of the total systems for various substrates. On request, furnish information on the characteristics of specified finish materials to ensure compatible primers.

1. Notify the Architect of problems anticipated using the coatings specified over substrates primed by others.

2.5 PREPARATION

A. Inspect all designated windows at site. Inspect both the weather and non-weather sides of each component.

B. Comply with manufacturer's written instructions and recommendations in "MPI Manual" applicable to substrates and paint systems indicated.

C. Remove hardware, 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.

D. Verify all areas of rotted or deteriorated wood in the following:

1. Window trim, sashes, Mullions, muntins, frames, heads, and sills.

2. All surfaces where wood decay is present or that do not retain original profiles require epoxy repair treatment.

3. Areas of major damage and deterioration require dutchman repairs

4. Verify the following conditions:

5. Missing or broken hardware.

6. Damaged or missing glazing.
7. Deteriorated glazing putty.

E. Removal of Finishes:

1. Prior to any repair work, all loose and deteriorated coatings shall be removed to bare wood. Gouging, scarring or other damage to wood shall not be permitted.

2. Coatings removal shall extend at least 2-inches beyond area to be repaired.

3. Removal of Glazing Compound from Wood Sash: Remove all existing glazing compound taking care not to damage glass.

F. 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 reprime substrate with compatible primers or apply tie coat as required to produce paint systems indicated.

2. Prime coat exposed wood surfaces within twenty-four hours from sanding.

2.6 REQUIREMENTS FOR LEADED PAINT SURFACES

A. Lead-based paint may be present on exterior surfaces of the building. It is the Contractor’s responsibility to ensure these materials are handled in accordance with all applicable State and Federal regulations to accomplish the work.

B. Project shall be conducted in compliance with CAL-OSHA requirements provided in 8 CCR 1528, 5144, 5194 and 5155. These provisions include, but are not limited to, personal exposure air monitoring, protective clothing, training, containment, respiratory protection, worker change areas and medical examinations.

2.7 SURFACE PREPARATION AND PAINTING

A. Existing wood sash elements have a minimum amount of paint. Paint removal down to bare wood is not required. Remove all flaking or raised paint. Sand smooth.

B. Existing frame and sill elements have multiple layers of paint. Complete paint removal is not required. Remove all flaking or raised paint. Sand smooth.

1. Where flaking of changes in paint layers occurs, feather the transition between layers to provide a smooth surface.

C. Prime all wood elements at completion of surface preparation.

D. Apply two coats of finish paint to all sash, sill and exterior frame elements. Apply one coat of paint to interior wood frame and sill elements.

E. Interior frame and sash elements may have different colors of paint, match existing colors.

2.8 APPLICATION

A. Prime Coats: Before applying finish coats, apply a prime coat of material, as recommended by the manufacturer, to the material required to be coated or finished.
1. Recoat, prime and seal substrates where there is evidence of suction spots or unsealed areas in the first coat to ensure a finish coat with no burn-through or other defects caused by insufficient sealing.

B. Brush Application: Brush-out and work brush coats into surfaces in an even film. Eliminate cloudiness, spotting, holidays, laps, brush marks, runs, sags, ropiness, or other surface imperfections. Neatly draw glass lines and color breaks.

2.9 COMPLETED REPAIRS

A. Repaired sash, frames and sills shall be consistent in detail and visual appearance and be weathertight. Where windows operate, windows shall open and close smoothly, and latch securely.

2.10 CLEANING

A. Clean both sides of all glazing at completion of project.

B. Remove and legally dispose of all materials, tools, equipment and debris generated from work of this section.

END OF SECTION