



Performance Coatings, Inc.
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The specification uses the Construction Specifications Institute (CSI) *Manual of Practice*, including *MasterFormat™*, *SectionFormat™* and *PageFormat™*. This specification is for semi-transparent, penetrating oil finish as applied to interior wood and bamboo wall panels and other wood and bamboo interior features and furniture.

Penofin Verde™ is manufactured by Performance Coatings, Inc. It contains no petroleum by-products or hazardous ingredients, is odorless and does not off gas.

SECTION 09 93 00
Staining and Transparent Finishing
09 93 23 Interior Staining and Finishing

PART 1 GENERAL

1. RELATED DOCUMENTS

General conditions and shop drawings of Contract, including General and Supplementary Conditions including Division – 1 section should they apply to the work of this section.

2. SUMMARY

- A. Section Includes: Finish systems for wood and bamboo solid and decorative wall panels.
- B. Related Sections may include:
 - 1. 06 06 40 Schedules for Architectural Woodwork.
 - 2. 06 20 23 Interior Finish Carpentry
 - 3. 01350 Special Environmental Considerations
- C. Substitutions:
 - 1. Submittals which do not provide adequate product information required in the specification will not be considered.

1.3 REFERENCES

- A. Test Methods:
 - 1. ASTM D6886-03 Standard Test Method for Speciation of the VOCs in Low VOC Content Waterborne Air-Dry Coatings by Gas Chromatography.

4.SUBMITTALS

- A. Product Data: Submit manufacturer's data for the product specified.
- B. Samples: Submit product sample in sealed manufacturer container.
- C. Test Results: Submit copies of test results which meet specified requirement and related laboratory reports showing compliance with specified tests and standards.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 10 years of experience manufacturing architectural finishing products.
- B. Emission Levels: Where indicated in Division 1 and, or Part 2, Products, quality assurance includes a copy of laboratory letter verifying the product has been tested to the methods specified 1.3 References above, and Green Seal® Standard GS-47, 3.0 Product-Specific Environmental and Health Requirements, Stains and Finishes, Edition 1.1, July 12, 2013.
- C. Applicable LEED™ Credits:
 - 1. Credit MR 6 Rapidly Renewable Material
 - 2. Credit IEQ 4.2: Low-Emitting Materials --- Paints and Coatings

1.6 DELIVERY, STORAGE AND HANDLING

- A. Finish containers are to be delivered to the project site in original, unopened containers.
- B. Storage temperature should not be different from normal conditions of an occupied space, between 45 ° F (7 C) and 80° F (26 C), with relative humidity not to exceed 85%.
- C. Before using, allow containers to achieve room temperature and normal relative humidity.

1.7 WARRANTY

- A. Submit manufacturer's warranty and related documents. <http://www.penofin.com/pdf/penofin-verde-application-instructions.pdf>

1.8 MAINTENANCE

- A. Extra materials:
 - 1. Furnish extra quantity of units equal to 5.0 percent of amount specified for use.

PART 2 – PRODUCTS**2.1 MANUFACTURER**

- A. Finish Manufacturer:
 - 1. Performance Coatings, Inc.
 - a. 360 Lake Mendocino Drive, Ukiah, CA 95482
 - b. 707-462-3023
 - c. Website: www.penofin.com

2.2 WALL PANEL FINISHING

- A. Semitransparent Stain:
 - 1. Ingredients: Brazilian Rosewood Oil, Tung Oil, Soy Resins and Vegetable Esters
 - 2. Color: Semitransparent warm light brown when wet, clear when dry.
 - 3. Gloss Level: Matte
 - 4. Flash Point: 200° F/93 C
 - 5. Viscosity: 184 cTs
 - 6. Stability: N/A if can is unopened
 - 7. Density: 7.8 lb/gal
 - 8. VOC: <1 g/l lb/gal
 - 9. Coverage: 350 – 500 square feet/gal
 - 10. Maximum Cure: 100% in 4-7 days
 - 11. Drying Time: 4 hours/ Serviceable: 12 hours
 - 12. Acceptable Product: Penofin® Verde, as manufactured by Performance Coatings, Inc. No substitutions permitted.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Ensure the wood or bamboo is clean, dry and free of surface materials.
- B. Ensure interior temperatures meet the ranges required for application of the finish.

3.2 PREPARATION

- A. Stir finish thoroughly before and during application.
- B. Do not apply if wood or bamboo is hot.
- C. Protect, tarp or mask off any adjacent areas not being finished.

3.3 APPLICATION

- A. Comply with the instructions and recommendation of the finish manufacturer.
- B. Use brush, pad or pump sprayer to apply liberal coating of surface.
- C. Allow finish to penetrate for 10-20 minutes. After 10-20 minutes, wipe the surface thoroughly with clean, lint-free cloths to remove excess finish.
- D. Soak any wiping and application brushes and pads in a bucket of water.

3.4 PROTECTION

- A. After application, protect wall panels from damage during any subsequent work.
- B. Do not allow trades to work in the immediate area until the finish is dry (Serviceable level: 12 hours).

END OF SECTION