



SECTION 09 93 00  
STAINS AND TRANSPARENT FINISHES

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. ExoShield finishes.
- B. Preparation of new surfaces for ExoShield finish.
- C. Preparation of existing surfaces for re-coating with ExoShield finish.

1.2 RELATED SECTIONS

- A. Section 06 20 00 - Finish Carpentry.

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 30 00.
- B. Product Data: Manufacturer's data sheets on each ExoShield finish product to be used, including:
  - 1. Product characteristics.
  - 2. Preparation instructions and recommendations.
  - 3. Storage and handling requirements and recommendations.
  - 4. Application methods.
- C. Colors:
  - 1. Clear. For Interior applications only.
  - 2. Natural.
  - 3. Mahogany.
  - 4. Walnut.
  - 5. Black Walnut.
  - 6. Custom Colors possible, mixed to match Architects' specifications.
- D. Selection Samples: For each ExoShield finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and sheens.
- E. Verification Samples: For each ExoShield finish product specified, two samples, minimum size 5.5 inches (140mm) square, representing actual product, color, and sheen.
- F. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based

materials, in accordance with requirements of local authorities having jurisdiction.

- C. Warning: Combustible liquid and vapor. Spontaneous combustion may occur in used cloths, brushes, rollers and applicators if not properly disposed.

## 1.5 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not apply ExoShield finishes under environmental conditions outside manufacturer's absolute limits.
- B. Comply with manufacturer's recommendations as to environmental conditions under which ExoShield finishes and ExoShield finish systems can be applied. Do not apply ExoShield finish when temperature is below 45 degrees F. Do not apply exterior ExoShield finish in damp or rainy weather; ensure that the surface has dried thoroughly before proceeding. Surface temperature must be at least 5 degrees F above dew point before coating.
- C. Do not apply ExoShield finish in areas where dust or contaminants are being generated.

## PART 2 PRODUCTS

### 2.1 EXOSHIELD MANUFACTURER

- A. Acceptable Manufacturer: Nova USA Wood Products, which is located at: 8082 SW. Nimbus Ave. Space 6-A, Beaverton, Oregon, 97008. Tel: 503-419-6407 Fax: 216-373-4931 Email:[info@novausawood.com](mailto:info@novausawood.com); Web:[www.novausawood.com](http://www.novausawood.com)
- B. Substitutions: Not permitted.
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00.
  - 1. When submitting request for substitution, provide complete product data specified above under Submittals, for each substitute product.

### 2.2 QUALITY ASSURANCE

- A. Installer Qualifications: A firm or individual experienced in applying 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. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
  - 1. Finish surfaces for verification of products, colors and sheens.
  - 2. Finish area designated by Architect.
  - 3. Provide samples that designate finish coats.
  - 4. Do not proceed with remaining work until the Architect approves the mock-up.

## PART 3 EXECUTION

### 3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.
- B. Examine surfaces scheduled to receive ExoShield finish for conditions that will adversely affect execution, permanence or quality of work.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

### 3.2 PREPARATION

- A. Clean surfaces thoroughly prior to ExoShield application.
- B. Prepare surfaces using the methods recommended in the manufacturer's installation literature to achieve the best result for the substrate under the project conditions.
- C. Surfaces to receive ExoShield finish shall be clean, dry, smooth and dust-free before application of ExoShield. Prepare surfaces as follows:
  - 1. AGED HARDWOOD:
    - a. Clean by scrubbing the wood surface thoroughly removing all grime, dust, and any mildew that may exist.
    - b. Standard consumer grade deck cleaners using a combination of Sodium Percarbonate and Soda Ash are appropriate.
    - c. When mixed with water, the cleaning solution can be applied to the wood surface with a garden chemical sprayer and left to soak for 5 – 10 minutes
    - d. The surface should then be thoroughly scrubbed with a stiff-bristle broom or brush and then rinsed completely.
    - e. A brightening agent using oxalic acid may be used to brighten old wood.
    - f. Power washing is acceptable only with care. Pressure should be no more than 2800 psi, use no less than a 45 degree angle and spray no closer than 4 inches from the surface.
    - g. A light sanding with 60 – 100 grit sand paper may be required.
  - 2. NEW HARDWOOD:
    - a. Ensure that wood is free from grease, oil or contaminants prior to finishing.
    - b. A light sanding with 60 - 100 grit sand paper may be required.
    - c. Remove all dust and debris caused by sanding prior to ExoShield finish.
- D. Surfaces which cannot be prepared as specified in the manufacturers installation literature shall be immediately brought to the attention of Architect in writing.
  - 1. Starting of work without such notification will be considered acceptance by the Contractor of surfaces involved.
  - 2. Replace unsatisfactory work caused by improper or defective surfaces as directed by Architect at no additional cost to Owner.

### 3.3 INSTALLATION

- A. Do not apply ExoShield finish until moisture content of surface is within limitations recommended by finish manufacturer.
- B. Application:
  - 1. Apply ExoShield with suitable brushes, rollers, pads or spraying equipment.
  - 2. Apply ExoShield in accordance with manufacturer's recommendations.
  - 3. Rate of application shall not exceed that as recommended by ExoShield manufacturer for surface involved.
  - 4. Wipe excess material from surface after 15 to 30 minutes of application using a lint-free cloth or pad.
- C. Apply ExoShield evenly with proper film thickness and free of runs, sags, skips and other defects.
- D. Remove hardware, hardware accessories, plates, lighting fixtures and similar items in place prior to applying ExoShield and replace upon completion of each space.

### 3.4 CLEANING

- A. Upon completion of work, remove equipment, excess material and debris. Leave area in a neat and orderly condition.
- B. Clean up of materials used in application of ExoShield should be done with care, taking into account the combustible nature of solvent-based materials. Heed all warnings and cautions.

### 3.5 PROTECTION

- A. Protect work of other trades and surrounding landscape against damage by overspray or over-application of ExoShield finish.
- B. Provide "wet paint" signs to protect newly coated surfaces. Remove temporary protective wrappings provided by others for protection of their work after completion of operations.