

# Specification

## Section 09 93 23 – Transparent Finishes

### PART 1 GENERAL

#### 1.1 SECTION INCLUDES

- a. Interior coating with transparent and semi-transparent finishes.

#### 1.2 RELATED SECTIONS

- a. Section 06 01 40 Architectural Woodwork Refinishing
- b. Section 06 05 83 Shop Applied Wood Coatings
- c. Section 09 9100 Painting
- d. Section 09 96 00 High Performance Coatings

#### 1.3 REFERENCES

- a. Solvent Cleaning
- b. Hand Tool Cleaning
- c. Power Tool Cleaning

#### 1.4 SUBMITTALS

- a. Submit in accordance with Section 01 33 00, Submittal Procedures.
- b. Product data: Manufacturer's Product Data Sheets on each coating product should include:
  - 1. Product characteristics
  - 2. Surface preparation instructions and recommendations
  - 3. Sealer requirements and finish specification
  - 4. Storage and handling
  - 5. Application methods
  - 6. Cleanup information
- c. Selection Samples: submit a complete set of finishes representing the range available.
- d. Maintenance Manual: at project completion the applicator shall provide a maintenance guide with respect to the coatings applied, detailing the scope of product use, annual inspection, care and cleaning instructions and contact information for repair and touch up of damaged surfaces.

#### 1.5 MOCK UP

- a. Sample area relevant to the size and nature of the project for client approval should include:
  - 1. Finish surfaces for verification of opacity and sheen
  - 2. Finish area designated by architect

#### 1.6 DELIVERY, STORAGE AND HANDLING

- a. Delivery: Ship manufacturer's unopened containers to the workplace, labelled to clearly identify:
  - 1. Product name and type
  - 2. Application instructions
  - 3. Surface preparation instructions
  - 4. Product mixing and preparation instructions
  - 5. VOC content
  - 6. Finish
  - 7. Batch number
  - 8. Environmental handling

- b. Storage and disposal: Store and dispose of solvent based and 2 pack coating products and materials used with these products including cleaning fluids all in accordance with local regulations. Store in sealed containers all products according to manufacturer's instructions. Protect from freezing.
- c. Handling: Maintain an appropriate clean and dry storage area to prevent contamination, damage or loss.

#### 1.7 PROJECT CONDITIONS

Maintain environmental conditions within limits prescribed by the manufacturer with respect to relative humidity, temperature and air flow. Do not apply coatings when conditions exceed limits prescribed by the manufacturer.

### PART 2 PRODUCTS

#### 2.1 MANUFACTURERS

- a. Acceptable Manufacturers:  
CAPTEX LTD
- b. North American Representative:  
Tepromark Architectural Products LLC  
PO Box 390407, Minneapolis, MN 55439  
Tel: 800.645.2622  
www.tepromark.com

#### 2.2 SCOPE

- a. Define all surfaces and substrates to be coated with fire rated clear coatings in accordance with the Finishes Schedule and Drawings.
- b. Where the project involves redecoration of existing surfaces, the scope must identify these areas.
- c. The descriptions of each system can be incorporated to what is to be coated. Include any requirements to be fire rated, and the relevant building code fire performance standard required for wood finished
- d. Surfaces to be coated: Wood Interior Systems - Transparent

#### 2.3 STAIN AND TRANSPARENT FINISHES

- a. Wood Interior Systems -
  - 1. Water based varnish-CAP800-827 System
    - 1st Coat: CAP100
    - 2nd Coat: CAP800
    - 3rd Coat: CAP827 Satin or CAP827 Matte
  - 2. Water and Solvent based varnish - CAP800-830 System
    - 1st Coat: CAP100
    - 2nd Coat: CAP800A/CAP800B mixed
    - 3rd Coat: CAP800A/CAP800B mixed (optional - total system to meet minimum DFT)
    - 4th Coat: CAP830A/CAP830B mixed



## 2.4 MATERIALS – GENERAL REQUIREMENTS

- a. Paint and Coatings – General
  1. Unless otherwise indicated, provide factory-mixed coatings. When required, mix coatings to correct consistency in accordance with manufacturer's instructions before application. Do not reduce, thin, or dilute coatings or add materials to coatings unless such procedure is specifically described in manufacturer's product instructions.
- b. Sealers and Primers
  1. Use only the recommended sealers in accordance with manufacturer's instructions.
  2. The execution of backpriming of woodwork is usually specified in the woodwork section, although the materials may be specified here.

## 2.5 ACCESSORIES

- a. Coating Application Accessories:
  1. Provide all primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean up materials required, per manufacturer's specification.

# PART 3 EXECUTION

## 3.1 EXAMINATION

- a. Do not begin application of coatings until substrates have been properly examined and prepared. Notify Architect of unsatisfactory conditions before proceeding.
- b. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- c. Proceed with work only after conditions have been corrected and approved by all parties, otherwise application of coatings will be considered as an acceptance of surface conditions.
- d. Previously Painted Surfaces: Verify that existing painted surfaces do not contain lead based paints, notify Architect immediately if lead based paints are encountered.

**Note:** If lead based paints are suspected on the project, all removal must be done in accordance with the EPA Renovation, Repair and Painting rules and all applicable state and local regulations. Verify that owner has completed a Hazardous Material Assessment Report for the project prior to issue of Project Drawings.

## 3.2 SURFACE PREPARATION

- a. Proper product selection, surface preparation, and application affect the outcome of coating performance. Coating integrity and service life will be less due to improperly prepared substrate. The correct and appropriate surface preparation process will ensure coating adhesion and prolong the life of the coating system.
- b. Selection of the proper method of surface preparation depends on the nature of the substrate, the environment, expectations of the client and the expected service life of the coating system. Cost, surface contamination, texture and the effect on the substrate of the coating will also influence the surface preparation methods.
- c. The surface must be dry and in sound condition.

Remove oil, dust, loose rust, peeling paint or other contamination to ensure good adhesion.

- d. Remove mildew before painting by washing with an appropriate solution. Apply the solution and scrub the mildewed area. Allow solution to remain on the surface for 15 minutes. Rinse thoroughly with clean water and allow the surface to dry at least 48 hours before painting. Wear protective eyewear, gloves, and protective clothing. Immediately wash off with water any of the mixture that comes in contact with your skin.
- e. No exterior painting should be done immediately after rain, during periods of high humidity or foggy weather, when rain is predicted, or when temperature is below 50°F.
- f. Surface Preparation:
  1. Wood – Interior:

All finishing lumber must be stored in dry, warm rooms to prevent absorption of moisture, shrinkage, and roughening of the wood. All surfaces must be sanded smooth, with the grain, never across it. Surface blemishes must be corrected and the area cleaned of dust before coating. Patching compounds will generally be visible through clear coatings.
  2. Remedial work:

On interior cracks and damage on wood substrate exposed surfaces, use an appropriate patching material. Patching compounds will generally be visible through clear coatings.

## 3.3 INSTALLATION

- a. Testing: Due to the wide variety of substrates, preparation methods, application methods and environments, the applicator should test the product in an inconspicuous location for adhesion and compatibility prior to full-scale application.
- b. Apply all coatings and materials with manufacturer's specifications in mind. Mix coatings according to manufacturer's recommendations.
- c. Do not apply to wet or damp surfaces. Wait until wood is below 15% moisture.
- d. Apply coatings using methods recommended by manufacturer.
- e. Apply coatings evenly without runs, drips, or sags, brush marks, and consistent sheen.
- f. Apply coatings at spreading rate required to achieve the manufacturer's minimum recommended dry film thickness.
- g. Regardless of number of coats specified, apply as many coats as necessary for uniform appearance and minimum dry film thickness.
- h. Inspection: the coated surface must be inspected and approved by the Architect or Engineer just prior to the application of each coat.

## 3.4 PROTECTION

- a. Protect finished coatings from damage until completion of project.
- b. Touch-up damaged coatings after substantial completion, following manufacturer's recommendation for touch up or repair of damaged coatings. Repair all defects that could inhibit the performance of the coatings.

## 3.5 SCHEDULES

- a. To be included as required.