



SECTION 099726 CEMENTITIOUS COATINGS

PART 1 GENERAL

1.01 SUMMARY

- A. Section includes: Provide a complete acrylic modified cementitious waterproof system for plywood surfaces that meet the requirements for specific use indicated in the contract documents. Include all applicable substrate testing, surface preparation, and detail work.

1.02 RELATED SECTIONS

- A. Specified elsewhere:
 - 1. Section 07 24 00 Exterior Insulation and Finish Systems
 - 2. Section 07 01 10.81 Waterproofing Replacement
 - 3. Section 07 10 00 Damproofing and Waterproofing
 - 4. Section 07 14 00 Fluid Applied Waterproofing
 - 5. Section 07 14 16 Cold Fluid Applied Waterproofing
 - 6. Section 07 16 13 Polymer Modified Cement Waterproofing
 - 7. Section 07 18 13 Pedestrian Traffic Coatings
 - 8. Section 09 09 00 Finishes
 - 9. Section 09 94 00 Decorative Finishing

1.03 REFERENCES

- A. ESL-1098 ALX Standard and Custom Finishes with full coverage of WP-40 sheet membrane meets the requirements of a Class I Vapor Retarder per ASTM E96.

1.04 SUBMITTALS

- A. Submit under provisions of Section 013300.
- B. Product Data: Submit manufacturer's product data sheets on each product and system to be used including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements.
 - 3. Installation methods.
 - 4. Maintenance requirements.
- C. Selection Samples: For each system specified, provide two sets of samples and color charts representing manufacturer's full range of colors and patterns.

1.05 QUALITY ASSURANCE

- A. All materials used in the pedestrian traffic system shall be manufactured and provided by a single manufacturer to ensure compatibility and proper bonding.
- B. Use adequate numbers of skilled workmen thoroughly trained and experienced in the necessary crafts and completely familiar with the specified requirements and methods needed for proper performance of the work of this section.
- C. Contractor shall have a minimum of 3 years experience installing pedestrian traffic coatings of this type which is required for this project and who is acceptable to the manufacturer.
 - 1. Applicator shall designate a single individual as project foreman who shall be on site at all times during installation.

2. Contractor must show and have QCA Qualified Contractor/Applicator paperwork from the manufacturer of the coating system, as required to obtain a long-term jobsite specific warranty.
- D. Convene a pre-application meeting before the start of application of coating system. Require attendance of parties directly affecting work of this section, including: Architect, contractor, applicator, and authorized representative of the coating system manufacturer and interfacing trades. Review the following:
 1. Drawings and specifications affecting work of this section.
 2. Protection of adjacent surfaces.
 3. Surface preparation and substrate conditions.
 4. Application.
 5. Field quality control.
 6. Protection of coating system.
 7. Repair of coating system.
 8. Coordination with other work.

1.06 DELIVERY, STORAGE & HANDLING

- A. Delivery: Materials shall be delivered to the job site in sealed, undamaged containers. Each container shall be clearly marked with manufacturer's label showing type of material, color, and lot number.
- B. Storage: Store all materials in a clean, dry place with a temperature range in accordance with manufacturer's instructions.
- C. Handling: Handle products carefully to avoid damage to the containers. Read all labels and Material Safety Data Sheets prior to use.

1.07 PROJECT SITE CONDITIONS

- A. Maintain environmental conditions (temperature and weather) within the limits recommended by the manufacturer.
- B. Schedule coating work to avoid rain and excessive dust and airborne contaminants. Protect work areas from moisture and excessive airborne contaminants during coating application.
- C. Before any work is started, the applicator shall examine all surfaces for any deficiencies. Should any deficiencies exist, the architect, owner or general contractor shall be notified in writing and any corrections necessary shall be made.

1.08 WARRANTY

- A. Upon completion of the work in this section provide a written warranty from the manufacturer against defect of materials for a period of 5 (five) years. To obtain project specific warranty the coating system applicator must be a Westcoat Qualified Contractor/ Applicator and apply for warranty.

PART 2 PRODUCTS

2.01 MANUFACTURERS

- A. Acceptable manufacturer: Westcoat Specialty Coatings; 4007 Lockridge Street, San Diego, CA 92102. Telephone 800-250-4519. Fax 619-255-7187. Website: www.westcoat.com.

2.02 MATERIALS

- A. As basis of design Westcoat ALX Interior System (no substitutions will be accepted): Waterproof walking deck system that is reinforced with metal lath and installed with a series of three separate polymer-modified cementitious applications, and sealed with acrylic topcoat.

2.03 COMPONENTS

- A. ALX Interior System: Waterproof system for use over plywood substrates.

1. Sheet Membrane: WP-40 Sheet Membrane 6 inch by 75 feet for plywood seams, or 36 inch by 75 feet for complete plywood coverage.
2. Metal Lath: WP-25 ALX Metal Lath 2.5 pounds per square yard hot dipped galvanized.
3. Staples: Minimum 1 inch crown by $\frac{5}{8}$ inch long, 16 gauge non-corrosive WP-10 Staples or equal.
4. Base Coats: Combine one 50 pound bag of TC-1 Base Coat Cement, 1 gallon of WP-82 Cement Modifier, and up to 2 quarts of water. Apply by trowel at 40 square feet per batch. A second coat must be applied by combining one gallon of WP-82 Cement Modifier and up to $\frac{1}{2}$ gallon of water with one bag of TC-1 Basecoat Cement.
5. Slurry Coat: Combine one 50 pound bag of TC-2 Smooth Texture Cement OR TC-4 Fine Texture Cement, 1 gallon of WP-82 Cement Modifier, and up to $\frac{1}{2}$ gallon of water. Apply by trowel at 200-250 square feet per batch
6. Finish Coats: Combine one 50 pound bag of TC-4 Smooth Texture Cement, 1 gallon of WP-82 Cement Modifier, and up to $\frac{3}{4}$ to 1 gallon of water. Apply at 250-350 square feet per batch. Apply a second coat of TC-4 following the directions above.
7. WB Stain: Apply SC-35 using a pump sprayer, airless sprayer, HVLP sprayer, brush or broom at 150-400 square feet per gallon. SC-35 can be applied in multiple coats to achieve a solid color.
8. First Topcoat: EC-32 Clear Epoxy Topcoat 200-500 square feet per gallon.
9. Second Topcoat: SC-65F Water-Based Flat Polyurethane Sealer 400-650 square feet per gallon.

2.04 ACCESSORIES

A. Supplemental Materials:

1. TC-2 may be used in place of the TC-4 as a finish coat, for a one coat system with a slightly more aggressive texture.
2. WP-81 may be used in place of WP-82, when low order is not necessary.
3. TC-40 Liquid Colorant may be added to integrally color the cement in the finish coat.
4. For an optional method, use Westcoat SC-30 Acid Stain. Please read Product Specification Sheet prior to use.
5. CA-29 or CA-30 Safe Grip can be added to the final coat of sealer for additional skid resistance.
6. Westcoat Slope Technique may be used when additional sloping is required. Slope Technique should be applied after the Base Coat, prior to the Slurry Coat.

Optional Topcoats:

7. SC-65G WB Gloss Polyurethane may be used OVER the EC-32 when a low odor, solvent free, mar and chemical resistant gloss finish is required.
8. SC-65SG Pigmented WB Semi-Gloss Polyurethane may be used OVER EC-32 when a low odor, solvent free, mar and chemical resistant semi-gloss finish is required.
9. EC-95G Gloss Polyurethane Topcoat may be used OVER the EC-32 when a gloss, solvent-based polyurethane is required.
10. EC-95F Flat Polyurethane Topcoat may be used OVER the EC-32 when a flat, solvent-based polyurethane is required.
11. EC-101 Polyaspartic 100% Solids may be used IN LIEU of the EC-32 when a high gloss, quick dry, high build, mar and chemical resistant finish is required.

PART 3 EXECUTION

3.01 EXAMINATION

A. Verification of conditions.

1. Inspect all surfaces to receive the pedestrian traffic system. Verify that surfaces are dry, clean, and free of contaminants that would prevent coating system from properly adhering to the surface.
2. Verify that substrates have $\frac{1}{4}$ inch slope per linear foot.
3. Before starting work, report in writing to the owner any unsatisfactory conditions.

3.02 SURFACE PREPARATION

- A. General:
 - 1. Prepare surfaces using methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.
- B. Plywood substrate:
 - 1. Provide minimum 5/8 inch CDX exterior grade plywood.
 - 2. Plywood shall have a maximum joist span of 16 inches.
 - 3. Deflection should be less than L/360.

3.03 INSTALLATION

- A. Install coatings in accordance with manufacturer's instructions.
- B. Mix all materials in accordance with manufacturer's instructions.
- C. Use application equipment, tools, and techniques in accordance with manufacturer's instructions.
- D. Uniformly apply coatings at spread rates and in number of coats to achieve specified coverage.
- E. Adhere to all limitations, instructions, and cautions for pedestrian coatings as stated in the manufacturer's published literature.

3.04 FIELD QUALITY CONTROL

- A. Verify coatings and other materials are as specified.
- B. Verify coverages and finish of the system as work progresses.
- C. Manufacturer's representative shall provide technical assistance and guidance for surface preparation and application of coating systems.

3.05 PROTECTION AND CLEAN-UP

- A. Installation areas must be kept free from traffic and other trades during the application procedure and cure time.
- B. Protect finished surfaces of coating system from damage during construction.
- C. Touch-up, repair or replace damaged coating system after substantial completion.
- D. Clean area and remove all debris upon completion of work. Dispose of empty containers properly according to current Local, State and Federal regulations.
- E. Allow material to cure 4 to 6 hours before light pedestrian traffic is permitted, 24 hours before heavy traffic and an additional 48 hours before heavy objects are placed on the surface.

3.06 MAINTENANCE

- A. Contractor shall provide to owner, maintenance and cleaning instructions for the waterproof decking system upon completion of work. Owner is required to clean and maintain the surfaces to maintain manufacturer's warranty.

END OF SECTION

This guide specification has been prepared by Westcoat Specialty Coating Systems to assist design professionals in developing a project specific specification. This guide is a template that must be reviewed and adapted by specifiers to comply with project requirements. This guide specification is not to be copied directly into a project specification manual without review.