

SECTION 071000 – CEMENTITIOUS WATERPROOFING FOR CONCRETE

PART 1 GENERAL

1.1.1 SUMMARY

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

1.2 RELATED SECTIONS

- A. Section 030000 - Concrete
- B. Section 050000 - Metals
- C. Section 060000 - Wood, Plastic, and Composites
- D. Section 080000 - Openings
- E. Section 090000 - Finishes
- F. Section 220000 - Plumbing

1.3 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, two samples representing manufacturer's full range of colors and patterns.

1.4 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.

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. Cleaning.
7. Protection of coating system.
8. Repair of coating system.
9. Coordination with other work.

1.5 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.

1.6 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.

1.7 WARRANTY

A. Upon completion of the work in this section provide a written warranty from the manufacture against defect of materials for a period of 10 (ten) years. Five plus Five warranty, see manufacture for details.

B. Upon completion of work in this section provide a written warranty from the applicator against defects of workmanship for a period of 5 (five) years.

PART 2 PRODUCTS

2.1 MANUFACTURERS

Acceptable manufacturer: LifeDeck Coatings by Life Paint Company; 12927 Sunshine Avenue, Santa Fe Springs, California, 90670. Telephone 800-400-0516. Fax 562-946-5921. Web Site: www.lifepaint.com.

Distributor: Industrial Coatings & Sealants, Inc. Phone 800-247-6742 or 425-742-5693.

2.2 MATERIALS

A. LifeDeck MACoat Systems for use over concrete. Cement and tile baker board substrates.

1. LifeDeck Fiberlath. Place LD Fiberlath over concrete or plywood substrate overlapping seams 2 inches. Apply LD1589 Base Coat into the Fiberlath and laminate to the surface at the rate of 60 square feet per gallon.

2. Base Coat: Combine one bag of LD1 Cement with four gallon of 1589 LD Resin.) 1 part LD to 1 part 1589 by volume for smaller batches) Approximately 256 square feet per batch.

3. Smooth Texture Coat: Combine one 1 bag of LD1 Cement with four gallons of 1589 LD Resin. Apply by trowel at approximate rate of 320 square feet per batch.

4. Optional Knock Down Finish: Combine one bag of LD3 Cement with one gallon of LD81 Cement Modifier and up top half a gallon of water. Apply by acoustical hopper gun to achieve a knock down finish at approximately 175 square feet per batch.

5. Top Coat: Apply LD 10 Series or 28 Series Top Coat 100% Acrylic in desired color at a spread rate of approximately 125 square feet per gallon on one coat. Or, two thin coats at approximate spread rate of 200 – 250 square feet per gallon.

B. Optional Finishes.

1. LD Custom finish may be used instead of knock down finish for the MACoat.

2.3 ACCESSORIES

A. Supplemental Materials:

1. Flashing shall be minimum 26 gauge bonderized sheet metal. 4 inch by 4 inch at wall to deck juncture and 4 inch by 2 inch drip edge at outside perimeter of deck.
2. Drains shall be one piece deck drains with flange such as, by Thunderbird Products,
3. Sealant shall be LifeDeck - LD Polyurethane Sealant or approved by manufacture.
4. Patching materials shall be LD- 7200 epoxy gel or paste then broadcast with #30 silica sand to improve the surface profile for subsequent coating adhesion or LD Concrete patch.

3.1 EXAMINATION

A. Verification of conditions.

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

3.2 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. Concrete substrate:

1. Create a surface profile by grinding, water blasting, or shot blasting to achieve a surface that feels like 60 to 80 grit sand paper.
2. Route and clean cracks and static joints: fill with manufacturer's recommended flexible epoxy filler material.
3. Honor all moving and expansion joints. Seal with manufactures recommended joint sealant.
4. Repair any non-moving surface deviations with manufacturer's recommended patching material.

3.3 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 manufacturers 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.

3.4 FIELD QUALITY CONTROL

- A. Verify coatings and other materials are as specified.
- B. Verify coverage's 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.

3.5 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.

3.6 MAINTENANCE

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

END OF SECTION