

SECTION 07120 - LIQUID WATERPROOFING

PART 1 GENERAL

1.01 WORK INCLUDED

- A. Liquid waterproofing. Apply to concrete floors.

1.02 RELATED WORK SPECIFIED ELSEWHERE

- A. Section 03300 – Cast-In-Place Concrete

1.03 QUALITY ASSURANCE

- A. Applicator qualifications: Approved in writing by the manufacturer of the liquid waterproofing used.

1.04 SUBMITTALS

- A. Samples: Before starting application of liquid waterproofing, prepare a sample for each application, about 3' x 4', for RESIDENT approval.

1.05 PRODUCT DELIVERY, STORAGE, AND HANDLING

- A. Store material in original, unopened containers in compliance with manufacturer's printed instructions.
- B. Deliver materials to Project site in original, factory-sealed, unopened containers bearing manufacturer's name and label intact and legible with following information.
 - 1. Name of material.
 - 2. Manufacturer's stock number and date of manufacture.
 - 3. Material safety data sheet.

- C. Recommended storage and application temperature is 75 degrees F. Store materials in protected and well ventilated area.

1.06 PROJECT CONDITIONS

- A. Observe manufacturers recommendations for temperature and relative humidity conditions for a period before, during and after application.
 - 1. If rain occurs, allow surfaces to dry a minimum of 5 days.
- B. Do not apply coating materials if temperature is less than 40 degrees F or if precipitation is imminent.

- C. Coordinate deck coating work with other trades to ensure adequate illumination, ventilation, and dust-free environment during application and curing of deck coatings. The applicator shall have sole right of access to the specified areas for the time needed to complete the application and allow the coating to cure adequately.
- D. Protect adjoining surfaces not to be coated against damage or soiling. Protect plants, vegetation and animals which might be affected by coating operations.
- E. Warn personnel against breathing of vapors and contact of material with skin or eyes. Wear applicable protective clothing and respiratory protection gear.
- F. Keep products away from spark or flame. Do not allow the uses of spark producing equipment during application and until all vapors have dissipated. Post "NO SMOKING" signs.
- G. Maintain work area in a neat and orderly condition, removing empty containers, rags, and rubbish daily from the site.

1.07 WARRANTY

- A. Upon completion and acceptance of the work required by this Section, the installation shall be warranted, on a single document, by the Manufacturer and the Applicator.
- B. The installation shall be warranted against loss of waterproofing integrity, adhesive or cohesive failure, for a period of 5 years from substantial completion.

PART 2 PRODUCTS

2.01 ACCEPTABLE MANUFACTURERS AND PRODUCTS

- A. Provide Enviroseal 40 for concrete floors, as manufactured by Hydrozo, 889 Valley Park Drive, Shakopee, MN 55379.
- B. Products of the following manufacturers which meet the requirements of the Drawings and this Section will be accepted:
 - 1. Tamms Industries Co. (Chemstop clear, Heavy Duty)
1222 Ardmore Avenue, Itasco, Illinois 60143
 - 2. Maso Products, Inc. (Clear Maso-Seal)
1175 N.E. 125th Street, North Miami, Fla. 33161
Tel: (305) 891-7471
 - 3. Karlee Company Inc. (Clear Aqua-Pell)
826 N. Lake Street, Burbank, CA 91502
Tel: (818) 843-4766

4. Chematics of PA
3060 No. Atlantic Ave., Coco Beach, FL 32931
Tel: (305) 783-7501
5. James Darcey Company (Clear Supershield)
19712 Merridy Street, Chatsworth, CA 91311
6. Dunn-Edwards Corp. (Okon W-2)
4885 E. 52nd Place, Los Angeles, CA 90040
Tel: (213) 771-3330
7. E.A.Thompson Co.,Inc.(Thompson Water Seal No.101)
703 Market St., San Francisco, CA 94103
Tel: (415) 777-5144

- C. Products of other manufacturers which meet the requirements of the Drawings and this Section will be considered for acceptance by RESIDENT.

2.02 MATERIAL

- A. As specified under "Acceptable Manufacturers and Products".

PART 3 EXECUTION

3.01 CONDITION OF SURFACES

- A. Examine surfaces scheduled to receive liquid waterproofing for conditions that will adversely affect execution, permanence and quality of work.
Should any deficiencies exist, the RESIDENT, DEPARTMENT, and CONTRACTOR shall be notified in writing.
- B. Allow surfaces to cure at least 10 days before application.
- C. Arrange for the pointing of cracks other than hairline cracks.
- D. Correct unsatisfactory conditions before proceeding with this work.

3.02 PREPARATION

- A. Clean surfaces prior to application of liquid waterproofing. Remove dust, dirt, efflorescence, oil or other deleterious materials.

3.03 APPLICATION

- A. Apply liquid waterproofing in strict compliance with its manufacturer's specifications and the requirements of this Section.

- B. Protect adjacent finished materials from overspray.
 - C. Apply waterproofing with low pressure spray equipment (airless or hand fluid pump type only) with not more than 20 psi.
 - 1. Tip size: As recommended by waterproofing manufacturer as but not smaller than .035.
 - 2. Do not use conventional pressure pot painting equipment.
 - 3. Coat surfaces with a fog pass to wet the surface and break the surface tension, follow immediately with a flood coat, allowing the material to run down the walls 8 in. to 10 in.
 - 4. Hold spray gun back 12 in. to 14 in. using wide pattern and trigger gun at end of each pass to avoid runs, laps and pile up of material.
 - D. Start application at top of wall and work down surface, keeping a wet edge at all times. Avoid letting liquid dry between passes.
 - E. First coat: Apply at the rate of 40-60 sq. ft. per gallon. Allow to cure 24 hours before further application.
 - F. Second coat: Apply at the rate of 80-100 sq. ft. per gallon.
- 3.04 ADJUST AND CLEAN
- A. Clean spillage and overspray from adjacent surfaces as recommended by liquid waterproofing manufacturer.
- 3.05 FIELD QUALITY CONTROL
- A. Spray test. After waterproofing has dried, spray coated surfaces with water.
 - B. Recoat surfaces that show water absorption.

END OF SECTION