

SECTION 07 14 16

ELASTOMERIC LIQUID WATERPROOFING

PART 1 - GENERAL

1.01 DESCRIPTION

- A. This Section describes the requirements for furnishing and installing cold fluid-applied waterproofing at the following locations:
 - 1. Under thin-set floor tile.
- B. Related Sections:
 - 1. Modified bituminous sheet waterproofing is specified in Section 07 13 52.
 - 2. Crystalline waterproofing is specified in Section 07 16 16.
 - 3. Bentonite waterproofing is specified in Section 07 17 00.
 - 4. Tile is specified in Section 09 30 00.

1.02 SUBMITTALS

- A. Product Data: Manufacturer's specifications, installation instructions, and general recommendations for each waterproofing material. Include data substantiating compliance with specified requirements.
- B. Warranty.

1.03 QUALITY ASSURANCE

- A. Installer Qualifications: Documented experience in the installation of waterproofing systems of the type specified, and approved by the manufacturer of the waterproofing materials.
- B. Waterproofing membrane shall meet or exceed extra heavy duty rating when tested in accordance with ASTM C627.

1.04 JOB CONDITIONS

- A. Substrate: Proceed with waterproofing work only after substrate construction and penetrating work have been completed.
- B. Coordinate finishing and curing of concrete surfaces to receive waterproofing with work of Section 03 30 00. Concrete surfaces shall have a steel trowel finish and shall be covered and wet cured for a minimum of 7-days.
- C. Weather: Proceed with waterproofing work when existing and forecasted conditions will permit work to be performed in accordance with manufacturer's instructions.
- D. Ventilation: Provide adequate ventilation to prevent accumulations of hazardous fumes during application of solvent-based components in enclosed spaces, and maintain ventilation until coatings have cured.

1.05 WARRANTY

- A. Warrant elastomeric liquid waterproofing to be free from defects in materials and workmanship for a period of 10-years from Date of Substantial Completion. This warranty shall include the cost to replace covering materials applied over cold fluid-applied waterproofing. This warranty shall be in addition to and not a limitation of other rights the County may have against the Developer Design/Builder under the Contract Documents.

PART 2 - PRODUCTS

2.01 APPROVED MANUFACTURERS

- A. Laticrete International "Laticrete 9235", Mer-Kote Products, Inc. "Mer-Krete B.F.P. Waterproof Membrane" or approved equal.

2.02 MATERIALS

- A. Membrane: Cold-applied liquid rubber latex with fabric reinforcement.
- B. Reinforcing: Rot-proof fabric, designed by membrane manufacturer for use in reinforcing membrane.

PART 1 - EXECUTION

3.01 PREPARATION

- A. Clean substrate of projections and substances detrimental to work; comply with recommendations of membrane manufacturer.
- B. Rough or uneven surfaces shall be made smooth or leveled with underlayment material in accordance with manufacturer's recommendations.
- C. Concrete surfaces shall be smooth, clean, free from dirt, grease, concrete sealers or curing compounds.
- D. Dry, dusty slabs shall be dampened and swept off.
- E. Do not allow waterproofing materials to enter and clog drains and conductors. Prevent spillage and migration onto other surfaces of work, by masking.

3.02 INSTALLATION

- A. Comply with ANSI A108.1, ANSI A108.13 and manufacturer's instructions.
- B. Precut reinforcing fabric allowing 2-inches for overlap at ends and sides. Extend fabric 6-inches through door openings.
- C. Reinforce Joints: Spread a layer of waterproofing liquid at joints and cracks. Imbed a 6-inch wide strip of reinforcing fabric into the liquid. Spread a layer of waterproofing liquid over the fabric to seal it.
- D. Coves: Spread a layer of waterproofing liquid in coves, imbed fabric and allow 6-inches of the fabric to flash up to walls. Spread a coat of liquid over the fabric to seal it. Flash the fabric and waterproofing liquid into drains and around projections.
- E. Cracks: Clean and fill cracks greater than 1/16-inch with a scratch coat of latex portland cement mortar and allow to cure. Spread a layer of waterproofing liquid on crack, imbed a 6-inch strip of reinforcing fabric into the liquid, and spread a coat of liquid over the fabric to seal it.
- F. Using a paint roller or brush, apply a coat of liquid membrane to the floor and/or wall, slightly wider than the fabric width. Include joints and coves previously reinforced. While the surface is still wet, embed fabric and smooth out wrinkles and press with brush or roller until membrane bleeds through to surface..
- G. Apply liquid membrane to completely cover the fabric and allow to dry to the touch.
- H. Apply an additional coat of liquid membrane and allow to dry.
- I. Inspect final surface for pinholes, voids or thin spots. Use additional membrane liquid to seal any defects.

3.03 PROTECTION

- A. Do not permit traffic on completed membrane prior to application of surfacing material.

END OF SECTION