

SECTION

07120

LATEX MASTIC MEMBRANE

Part 1 GENERAL

1.01 DESCRIPTION OF WORK

- A. Work under this section consist of furnishing everything necessary for and incidental to the execution and completion of all Latex Mastic Membrane and protection course work, as indicated on the drawings and specified herein.

- B. Related work:
 - 1. Tile
 - 2. Stone
 - 3. Mortar Bed
 - 4. Thin-Set Mortar
 - 5. Grout
 - 6. Underlayment
 - 7.

1.02 QUALITY ASSURANCE

- A. All work performed under this specification shall meet the current standard of care for the items as specified and in conjunction with manufacturers specification and current Tile Council of America guidelines.

- B. Manufacturer of Latex Mastic Membrane shall be regularly engaged in the manufacturer of Latex Mastic Membranes for the past ten years and submit a list of at least five projects of equal complexity and scope. Installations submitted shall have been in place for the past five years with no sign of failure.

- C. Acceptable Manufacturer: Materials of Mer-Krete Systems, 501 Van Ness Ave. Torrance California 90501 800/ 851-6303. Fax.310 320-9438

- D. Use only materials from a single manufacturer to ensure compatibility or as approved in writing by the membrane manufacturer.

- E. Qualification of installers:
 - 1. Use only pre-qualified and approved subcontractors employing skilled and experienced workers.
 - 2. Helpers and apprentices used for such work shall be under full and constant supervision at all times by thoroughly skilled installers.
 - 3. In the acceptance or rejection of installed work, no allowance will be made for the lack of skill on the part of the installer.

- F. Instructions: Request the service of a representative of the manufacturer for initial instructions in preparation, mixing and application of the materials. The manufacturer shall supply such service as required. Notify manufacturer in writing 30 days prior to requiring his services.

1.03 SUBMITTALS

Submit catalog data which includes specification and installation details. Installation instructions and recommendation of manufacturer shall be specified for this application.

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING:

- A. Deliver materials to the project site in manufacturer's unopened, undamaged, original packaging.
- B. Store materials on site in enclosures or under protective covering that assure materials are kept clean and dry.
- C. Store materials off ground.

1.05 JOB CONDITIONS:

- A. Environmental Conditions: Work shall be performed within range of temperatures, and in climatic conditions recommended by the manufacturer.

Part 2 PRODUCTS

2.01 MATERIALS:

- A. Latex Mastic Membrane shall be Mer-Krete BFP Membrane as manufactured by Mer-Krete Systems, Torrance California 800/ 851-6303 No know equal.
- B. The composition when properly blended and cured should exhibit the following physical characteristics and properties:
 - 1. Rubber emulsion for this elastomeric membrane shall be comprised of rubber latex and shall have a minimum total solids content of 28% when tested by the dry cup method.
 - 2. The dehydrating powders shall contain cements of the calcium aluminate variety only, capable of developing 3,500 psi in twenty four hours (ASTM C-109).
 - 3. The membrane shall elongate a minimum of 500%.
 - 4. The membrane shall withstand a water head of 115 ft. for a period of sixty minutes without water transmission or rupture of the membrane.
 - 5. The average thickness of the membrane shall be 1/8"
 - 6. Elongation over crack .22 inches (Split Slab Test).
 - 7. Adhesion in shear 500 psi
 - 8. Tensile 450 psi
 - 9. Tile Adhesion to membrane: using Mer-Krete Latex 200 with 211 Filler (ANSI A118.4) method in excess of 500 psi
 - 10. Freeze Thaw cycle after cure - 250 cycles. No Change (M/K A-223) method.
- C. Joint Backing: Closed cell polyethylene.
- D. Sealant: Single or two component urethane per TCA requirements.
- E. Underlayment: Mer-Krete Systems Underlay-L System as where indicated.

PART 3 EXECUTION:

3.01 VERIFYING SURFACE CONDITIONS

A. Inspection:

1. Prior to commencement of work, carefully inspect the installed work of other trades and verify that all such work is complete to the point where this installation may properly commence.
2. Verify that this work may be installed in accordance with all pertinent codes and regulations, the original design, and the referenced standards.

B. Mortar Bed:

1. Mortar bed shall be formed from Mer-Krete Underlay -M System in accordance to manufacturers specifications. Install Underlay-M material over 2.5 K/lath nailed or stapled 6"oc. Slope and cricket as per drawings. Minimum thickness shall be 1/4" wire reinforced bed. Verify slope with general contractor prior to installing waterproofing. Install control joints as per the most current TCA guidelines and or as indicated on the drawings.

C. Grout:

Grout color as selected by the architect gauged with Mer-Krete 150 Acrylic / Latex as per manufacturers specifications.

D. Discrepancies:

1. In the event of discrepancy, immediately notify the architect, General Contractor or his agent.
2. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

3.02 INSTALLATION

- A. This membrane shall be installed in strict accordance with the manufacturers printed specifications, and the most current requirements of the Tile Council of America guide lines.

1. Prime coat and flexible waterproof membrane shall be applied as follows:
A trowel applied prime coat blended in a ratio of two parts powder to one part emulsion. All base and edge flashing areas shall be coated to the height as indicated by the manufacturer or as indicated on the drawings.
2. Over the prime coat the waterproof membrane shall be applied to all flat areas using synthetic asphalt modified rubber flashing paste (BFP Mastic), and synthetic reinforcement cloth (Type II). Two coats of rubber shall be applied to a total thickness of 30 mils by laminating wet mastic into cloth making sure all mat is saturated at the prescribed thickness. All vertical, base and edges shall be flashed in the same manor. A second coat of rubber must be applied to fill all pin holes.
3. Protection coat shall be a blend of two parts powder to one part liquid neoprene latex emulsion mixed and applied over all coated surfaces.
4. For thin-set application, adhesive shall be Mer-Krete 200 Latex with 211 Filler as manufacturer by Mer-Krete to ensure compatibility and meeting ANSI A-118.4 Standards, no substitution. All grout, mortar mixes and fillers shall be approved in writing by the manufacturer or as outlined in manufacturer specifications.

3.03 FLOOD TEST:

- A. Give each cavity a 24 hour flood test. Plug any drains to contain the water. Notify Architect, General Contractor, owners agent and manufacturer of the membrane no less than 72 hours prior to performing test.

3.04 PROTECTION:

- A. After successful completing flood test, waterproof membrane covering shall be adequately protected by the prime contractor against damage or misuse by other trades until final acceptance of the building.

3.05 WARRANTY:

- A. Warrantee material and workmanship to the owner insuring waterproof membrane performance of the system is as per manufacturers specifications and all work has been per all applicable industry standards

and as per standard of care issues for the industry involved. Warranty shall be -5- years material and labor.

END OF SECTION