

SECTION 07110
DAMPPROOFING

PART 1 GENERAL

1.1 SUMMARY

A. Scope

1. Apply mastic dampproof coating to exterior surface of exterior building walls below grade. Apply to outer vertical edge of wall footing, over top of footing, and up the wall to lap with masonry wall fabric flashing, or with expansion joint filler in paving work, or to extend to finish earth grades.

B. Related Work Specified In Other Sections

1. Cast-In-Place Concrete - Division 3.

1.2 QUALITY ASSURANCE

A. Installers' Qualifications

1. The Work of this Section shall be carried out by an approved installer having specialized in this Work as its primary business for at least 5 years, and having performed satisfactorily Work of this type, size and scope.
2. Employ craftsmen who are thoroughly skilled and completely familiar with the specified requirements. Provide the services of a competent foreman or supervisor who shall be available at all times during the progress of the work of this Section.
3. The Owner's Representative reserves the right to reject materials or workmanship not conforming to the Specifications at any time before final acceptance. Acceptance of materials or workmanship by the Owner's Representative shall not prevent its subsequent rejection if defects are discovered later. The Contractor shall remove installed materials that are rejected by the Owner's Representative and replace them at no additional cost to the Owner.

1.3 SUBMITTALS

- A. Furnish submittals for items that are identified in this Section by a different typeface and a bracketed code (e.g., *Item [L]*). Refer to Division 1 General Requirements for definition of codes, types of submittals and the administrative requirements governing submittal procedure.

1.4 PRODUCT DELIVERY, STORAGE AND HANDLING

- A. Deliver packaged materials to the project site in their original unopened containers, packages, and bundles, bearing labels identifying manufacturer's name, brand name, and grade or type.
- B. Store packaged materials off the ground and protect from moisture, deterioration and contamination.

- C. Remove broken containers and their contents from the project site. Dispose of in a legal manner and replace with new materials at no additional cost to the Owner.

1.5 PROJECT CONDITIONS

A. Environmental Conditions

1. Do not apply dampproofing until concrete has attained full cure and initial shrinkage has occurred.
2. Ambient temperature and humidity conditions shall be compatible to proper workability of materials specified and to a successfully completed installation. Commencement of work shall constitute acceptance of the surfaces to be dampproofed and the conditions at the site under which this work is to be done.
3. Follow manufacturer's printed instructions for maintaining proper environmental conditions.
4. Use emulsion type dampproofing on damp surfaces.

B. Protection

1. Provide and maintain temporary protections to prevent damage to adjacent surfaces due to application of dampproof coating. Provide and maintain temporary protection to prevent damage to dampproof system during installation and until subsequent construction operations are commenced or until protective cover is in place.

PART 2 PRODUCTS

2.1 MATERIALS

A. *Emulsion Dampproofing For Damp Surfaces [P,G]:*

1. Apply mastic dampproofing at the rate of 6 gallons per 100 square feet.
 - a. Karnak Corporation "Karnak 920 AFHeavy Trowel"
 - b. Chem Rex Inc. "Hydrocide 700"
 - c. W. R. Meadows, Inc. "Sealmastic Type 3 Trowel-On Grade"
2. Apply primer for emulsion type dampproofing per manufacturer's instruction: ASTM D 1227 Type III, Class 1.

B. Miscellaneous

1. Asphalt shall be per ASTM D 449, Type B and primer per ASTM D 41.
2. Woven glass fiber fabric, resin coated and compatible with dampproof coating shall be per ASTM D 1668, Type III.
3. Premolded membrane-type protective board shall be 1/8 inch thick.
 - a. Texmastic International, Inc. "Backerbord 501-A"
 - b. W. R. Meadows Inc. "Sealtight PC-2 Protection Course"

PART 3 EXECUTION

3.1 GENERAL

A. Coordination

1. Coordinate the Work of this Section with the work of other trades doing adjacent or concurrent work so as to insure proper, timely, and adequate interface.

B. Inspection

1. If any part of the Contractor's work depends for proper execution or results upon the prior work of any other Contractor, the Contractor shall, prior to proceeding with the work, promptly report to the Owner's Representative any apparent discrepancies or defects that render it unsuitable for proper execution and results. Failure of the Contractor to report such discrepancies or defects shall constitute acceptance of the prior work as fit and proper to receive his work, except as to defects in work by others which may subsequently become apparent.

C. Surface Preparation

1. Examine surfaces to receive dampproofing. Remove laitance, projections, oil, grease, dirt, grime, dust or other conditions that would prevent obtaining a tight, uniform bonding of the dampproofing to the substrate, or that would be detrimental to the proper performance of the dampproofing.
2. Roughen surfaces as necessary to ensure proper bonding of dampproofing to the surfaces. Cut out defective areas and joints. Fill cut out areas, joints and holes with fillers and sealants compatible with the dampproofing. Cut out around items piercing the dampproofing plane to create a recess and fill the recess with sealant and flashings.
3. Provide slope on exterior horizontal below-grade ledges so as to drain away from building wall.
4. Remove projecting mortar from joints in back-up wythe of the masonry walls. Fill holes in mortar joints.
5. Apply primer to dusty or porous masonry or concrete. Allow primer to dry thoroughly before applying dampproofing.

3.2 INSTALLATION

A. Interior Work

1. Install in accordance with the manufacturer's recommendations unless otherwise noted.
2. Extend coating uniformly over entire surface. Apply from floor line to full height of wall unless otherwise noted on the Drawings.
3. Apply dampproof coating prior to installation of furring, nailers, blocking or other support members for installation of interior finish system.

B. Exterior Work

1. Install in accordance with the manufacturer's recommendations unless otherwise noted.
2. Extend coating uniformly over entire surface.
3. Treat and reinforce construction joints, horizontal joint between the bottom of the wall and top of the footing, at corners, at projections or changes in plane, where wall is penetrated

by utility service lines and at other points or lines of stress. Apply dampproof coating material, 1/16 inch thick, at each joint, embed a 12 inch wide strip of fabric into the material and apply a second 1/16 inch thick coating and extend beyond fabric edge a minimum of 1 inch. At wall penetration, apply sufficient dampproof coating material to develop a cove, extending a 1/16 inch thick coating onto wall surface a minimum of 6 inches and onto pipe or sleeve an equal distance; embed 12 inch wide strip of fabric into the material and apply a second 1/16 inch thick coating, terminating beyond fabric edge a minimum of 1 inch.

4. After dampproof coating has initially cured and prior to start of subsequent construction operations in the area, apply a layer of protective board over the coating. Apply protective boards with butted joints and secure boards to coating with spots of mastic to hold the board in place during backfill operations.
5. No backfills shall be placed until dampproof coating and protection board installation is accepted by the Owner's Representative.

3.3 ADJUSTING AND PATCHING

- A. Prior to placing of protective board, inspect the dampproofing plane and repair any damaged or defective area to provide a continuous dampproofing plane. Prior to commencement of subsequent construction operations, examine the protective board for damage or defective conditions. Determine if damage or defective condition has affected the dampproofing plane and the protective board course. Repair damaged or defective area to provide a continuous dampproofing plane and a continuous protective course.
- B. Remove any improperly applied dampproofing material and properly prepare and patch surfaces and reinspect.

END OF SECTION

Revision History	
Date	Rev. No.
F	0
02-19-09	0

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