

SECTION 07115

BITUMINOUS DAMPPROOFING

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes cold-applied, emulsified-asphalt dampproofing applied to the following surfaces:
  - 1. Exterior, below-grade surfaces of concrete foundation walls opposite interior spaces.
  - 2. Backfill side of concrete retaining walls, below grade.
  - 3. Exterior face of foundation wall of exterior masonry cavity walls.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated. Include recommendations for method of application, primer, number of coats, coverage or thickness, and protection course.
- B. Material Certificates: For each product, signed by manufacturers.

1.3 QUALITY ASSURANCE

- A. Source Limitations: Obtain primary dampproofing materials and primers through one source from a single manufacturer. Provide secondary materials recommended by manufacturer of primary materials.

1.4 PROJECT CONDITIONS

- A. Weather Limitations: Proceed with installation only when existing and forecasted weather conditions permit asphalt dampproofing to be performed according to manufacturers' written instructions.
- B. Ventilation: Provide adequate ventilation during application of dampproofing in enclosed spaces. Maintain ventilation until dampproofing has thoroughly cured.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
  - 1. Cold-Applied, Emulsified-Asphalt Dampproofing:
    - a. Euclid

- b. Karnak Corporation.
- c. Meadows, W. R., Inc.
- d. Sonneborn, Div. of ChemRex, Inc.

## 2.2 BITUMINOUS DAMPPROOFING

- A. Trowel Grade: ASTM D 1227, Type II, Class 1 or Type IV.
  - 1. Available Products:
    - a. Sealmastic, Type 3; W. R. Meadows
    - b. Hydrocide 700; Sonneborn Building Products.
    - c. Dampproofing Asphalt Coatings Mastic; Euclid
    - d. Karnak 920 AF; Karnac Chemical Corp.
- B. Fibered Brush and Spray Coats: ASTM D 1227, Type II, Class 1 or Type IV.
  - 1. Available Products:
    - a. Sealmastic, Type 2; W. R. Meadows
    - b. Hydrocide 700B; Sonneborn Building Products.
    - c. Dampproofing Asphalt Coatings Semimastic; Euclid
    - d. Karnak 220 AF; Karnac Chemical Corp.
- C. Brush and Spray Coats: ASTM D 1227, Type III, Class 1.
  - 1. Available Products:
    - a. Sealmastic, Type 1; W. R. Meadows
    - b. Hydrocide 600; Sonneborn Building Products.
    - c. Karnak 100 AF; Karnac Chemical Corp.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine substrates, with Applicator present, for compliance with requirements for surface smoothness and other conditions affecting performance of work.
  - 1. Begin dampproofing application only after substrate construction and penetrating work have been completed and unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Protection of Other Work: Mask or otherwise protect adjoining exposed surfaces from being stained, spotted, or coated with dampproofing. Prevent dampproofing materials from entering and clogging weep holes and drains.
- B. Clean substrates of projections and substances detrimental to work; fill voids, seal joints, and apply bond breakers if any, as recommended by prime material manufacturer.

### 3.3 APPLICATION, GENERAL

- A. Comply with manufacturer's written recommendations unless more stringent requirements are indicated or required by Project conditions to ensure satisfactory performance of dampproofing.
  - 1. Apply additional coats if recommended by manufacturer or required to achieve coverages indicated.
  - 2. Allow each coat of dampproofing to cure 24 hours before applying subsequent coats.
- B. Apply dampproofing to footings and foundation walls where opposite side of wall faces building interior whether indicated or not.
  - 1. Apply from finished-grade line to top of footing, extend over top of footing, and down a minimum of 6 inches (150 mm) over outside face of footing.
  - 2. Extend 12 inches (300 mm) onto intersecting walls and footings, but do not extend onto surfaces exposed to view when Project is completed.
- C. Apply dampproofing to footings and retaining walls.
  - 1. Apply from finished-grade line to top of footing, extend over top of footing, and down a minimum of 6 inches (150 mm) over outside face of footing.
  - 2. Extend 12 inches (300 mm) onto intersecting walls and footings, but do not extend onto surfaces exposed to view when Project is completed.
- D. Apply dampproofing to provide continuous plane of protection on exterior face of foundation walls of exterior masonry cavity walls.
  - 1. Lap dampproofing at least 1/4 inch (6 mm) onto flashing, masonry reinforcement, veneer ties, and other items that penetrate foundation wall.
  - 2. Extend dampproofing over outer face of structural members and concrete walls, and lap dampproofing at least 1/4 inch (6 mm) onto shelf angles supporting veneer.

### 3.4 COLD-APPLIED, EMULSIFIED-ASPHALT DAMPPROOFING

- A. On Concrete Foundations: Apply two brush or spray coats at not less than 1.5 gal./100 sq. ft. (0.6 L/sq. m) for first coat and 1 gal./100 sq. ft. (0.4 L/sq. m) for second coat, one fibered brush or spray coat at not less than 3 gal./100 sq. ft. (1.2 L/sq. m), or one trowel coat at not less than 4 gal./100 sq. ft. (1.6 L/sq. m).
- B. On Backs of Concrete Retaining Walls: Apply one brush or spray coat at not less than 1.25 gal./100 sq. ft. (0.5 L/sq. m).

### 3.5 CLEANING

- A. Remove dampproofing materials from surfaces not intended to receive dampproofing.

END OF SECTION