

**SECTION 07 11 13  
BITUMINOUS DAMPPROOFING**

**PART 1 - GENERAL**

**1.1 SUMMARY**

A. Sections Includes:

1. Dampproofing at masonry cavity walls.

B. Related Sections:

1. Section 04 20 00 - Unit Masonry.

2. Section 04 41 00 - Stone Masonry Veneer.

**1.2 REFERENCES**

A. Reference Standards: In addition to requirements shown or specified, comply with applicable provisions of following for design, materials, fabrication, and installation of component parts:

1. NRCA Roofing and Waterproofing Manual, National Roofing Contractors Association - NRCA Waterproofing and Dampproofing Manual.

**1.3 SUBMITTALS**

A. Product Data: Submit for each product.

B. Informational Submittals: Submit following packaged separately from other submittals:

1. Manufacturer's instructions.

**1.4 DELIVERY, STORAGE AND HANDLING**

A. Store emulsions at temperature above 40 F.

**1.5 PROJECT CONDITIONS**

A. Environmental Conditions: Maintain ambient and surface temperature above 40 F for 24 hours before application and continuously until dampproofing has cured.

1. Do not allow dampproofed surfaces to be exposed to prolonged sunlight.

2. Proceed with dampproofing only when existing and forecasted weather conditions will permit materials to be applied in accordance with manufacturer's recommendations.

3. Substrate: Proceed with dampproofing work only after substrate construction and penetrating work have been completed.

**PART 2 - PRODUCTS**

**2.1 DAMPPROOFING MATERIALS AND COMPONENTS**

- A. Emulsion Based Semi-Mastic Dampproofing: Non-asbestos short fiber reinforced emulsion asphaltic compound, ASTM D1227, Type 2, Class 1 or 2
1. Application: Brush or spray.
  2. Thickness: Primer and two coats for 1.6 mm 1/16 inch minimum.
  3. Acceptable Products and Manufacturers:
    - a. A-H Semi-Mastic Emulsion, Anti-Hydro, Co. Newark, NJ.
    - b. Emulsified Asphalt Semi-Mastic, Euclid Chemical Co., Cleveland, OH.
    - c. Karnak 220AF, Karnak Chemical Corporation, Clark, NJ.
    - d. Sealmastic Type II, W. R. Meadows, Inc., Elgin, NJ.
    - e. Hydrocide 700B, Sonneborn Building Products/ChemRex, Inc. Minneapolis, MN.
- B. Accessories:
1. Primer: Manufacturer's recommended primer for conditions encountered.
  2. Reinforcing Mesh: Treated glass fabric, woven design, 20 by 10 mesh.

### **PART 3 - EXECUTION**

#### **3.1 EXAMINATION**

- A. Examine conditions and proceed with work.
1. Verify substrate surfaces are structurally sound.
  2. Do not apply during inclement weather, or if surface is frozen, damp, dirty, or dusty.
  3. Verify that items penetrating dampproofing system are securely anchored.

#### **3.2 PREPARATION**

- A. General: Remove rough or sharp projections, loose particles, and foreign matter detrimental to adhesion and application of dampproofing.
1. Clean, prepare, and prime surfaces to receive dampproofing in accordance with manufacturer's instructions.
  2. Do not allow primer or dampproofing to migrate onto adjacent surfaces. Protect surfaces as necessary.
  3. Seal penetrations and cracks, and reinforce changes in substrate and other areas as recommended by dampproofing manufacturer.
  4. Fill voids as recommended by dampproofing manufacturer.

#### **3.3 DAMPPROOFING APPLICATION**

- A. Apply materials in accordance with manufacturer's instructions.

1. Apply semi-mastic materials in two coat process by brush at rate not less than 4 gallons per 100 square feet for nominal 1/16 inch wet film thickness per coat. Allow 24 hours minimum cure between coats.
2. Fill in crevices and grooves making coating continuous and free from breaks and pin holes. Apply around joints, anchors and into chases, corners and reveals. Reinforce dampproofing with glass fiber mesh at changes in direction.

#### **3.4 FIELD QUALITY CONTROL**

- A. Inspections: Before initial set takes place, periodically verify applied thickness by use of wet mil thickness gage as work progresses. In deficient areas apply additional materials to produce required thickness.
  1. Visually inspect surfaces for voids, ruptures and damages; make necessary repairs.

#### **3.5 PROTECTION AND CLEANING**

- A. Protect adjacent surfaces; remove dampproofing from surfaces which remain exposed to view or where inadvertently applied.

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