

SECTION 07 11 00

DAMPPROOFING

PART 1 – GENERAL

1.1 SUMMARY

- A. Section includes: cold applied asphalt bituminous dampproofing for application on below-grade foundation walls and footings where waterproofing products are not indicated on the drawings.
- B. The Owner has established sustainability goals for this project, and this Section contains specific information and requirements for compliance. Refer to Section 01 81 13 for additional requirements.
- C. Related Sections:
 - 1. Section 03 10 00 - Concrete Forming and Accessories.
 - 2. Section 03 30 00 - Cast-In-Place Concrete.
 - 3. Section 07 17 00 - Bentonite Waterproofing.
 - 4. Section 07 27 00 Air Barriers and Water Resistive Barriers.

1.2 REFERENCES

- A. ASTM International:
 - 1. ASTM D41 - Standard Specification for Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing.
 - 2. ASTM D43 - Standard Specification for Coal Tar Primer Used in Roofing, Dampproofing, and Waterproofing.
 - 3. ASTM D449 - Standard Specification for Asphalt Used in Dampproofing and Waterproofing.
 - 4. ASTM D450 - Standard Specification for Coal-Tar Pitch Used in Roofing, Dampproofing, and Waterproofing.
 - 5. ASTM D1227 - Standard Specification for Emulsified Asphalt Used as a Protective Coating for Roofing.
 - 6. ASTM D3747 - Standard Specification for Emulsified Asphalt Adhesive for Adhering Roof Insulation.
 - 7. ASTM D4586 - Asphalt Roof Cement, Asbestos-Free.
 - 8. ASTM D5643 - Coal Tar Roof Cement, Asbestos Free.
- B. National Roofing Contractors Association: NRCA - The NRCA Waterproofing and Dampproofing Manual.

1.3 SUBMITTALS

- A. Section 01 33 00 - Submittal Procedures: Submittal procedures.
- B. Product Data: Submit properties of primer, bitumen, and mastics.
- C. Manufacturer's Installation Instructions: Submit special procedures and perimeter conditions requiring special attention.
- D. VOC Limits: Include manufacturer's literature for each adhesive, coating and sealant used inside the weather-resistive barrier (WRB) in this Section identifying VOC limits and chemical components.

1.4 ENVIRONMENTAL REQUIREMENTS

- A. Section 01 60 00 - Product Requirements.
- B. Maintain ambient temperatures above 40 degrees F for 24 hours before and during application until membrane has cured.

PART 2 – PRODUCTS

2.1 BITUMINOUS DAMPPROOFING

- A. Manufacturers:
 - 1. BASF Master Builders Solutions, MasterSeal 615 (formerly Sonneborn Waterproofing Systems, Sonoshield Hydrocide 700B), waterborne emulsified-asphalt damproofing compound.
 - 2. DECO 20 Dampproof Coating, DECO Products, Inc.
 - 3. Substitutions: Section 01 25 13 – Product Substitution Procedures.

2.2 COMPONENTS

- A. Cold Asphaltic Materials:
 - 1. Emulsified Asphalt: ASTM D1227, Type 2, Class 1, reinforced with non-asbestos fibers.
 - 2. Asphalt Primer: ASTM D41, compatible with substrate.
 - 3. Sealing mastic for projecting items: Asphalt type compatible with damproofing, free of toxic solvents, thick mastic consistency, type recommended by damproofing manufacturer.

2.3 ACCESSORIES

- A. Termination Bar: Min. 1/8" thick by 1" (25 mm) wide stainless steel or aluminum termination bar with pre-punched holes punched 6" (150 mm) on center for fastening.
- B. Drainage Mat: Aquadrain 15X – two-part prefabricated sheet drain consisting of a 3-dimensional polypropylene formed dimple core covered with a non-woven polypropylene filter fabric on one side. Use base drain accessory connectors and outlets as required.
- C. Accessories as required by manufacturer(s).

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Section 01 30 00 - Administrative Requirements: Coordination and project conditions.
- B. Verify substrate surfaces are durable, free of matter detrimental to adhesion or application of dampproofing system.
- C. Verify items penetrating surfaces to receive dampproofing are securely installed.

3.2 PREPARATION

- A. Protect adjacent surfaces not designated to receive dampproofing.

- B. Clean and prepare surfaces to receive dampproofing.
- C. Do not apply dampproofing to surfaces unacceptable to manufacturer or applicator.
- D. Apply mastic to seal penetrations, small cracks, or minor honeycomb in substrate.

3.3 INSTALLATION

- A. Prime surfaces if required by manufacturer, or wet surfaces as recommended by manufacturer. If primed, permit primer to dry.
- B. Apply product directly from container by brush, roller or spray using proper equipment. Apply two coats, allowing first coat to dry tacky before applying second coat.
- C. Fill in all crevices and grooves; making sure coating is continuous and free from breaks and pinholes. Carry coating over exposed top and outside edge of footing. Spread around all joints, grooves and slots and into all chases, corners, reveals and the like. Bring the coating to finished grade.
- D. Seal items Projecting through dampproofing surface with mastic. Seal watertight.
- E. Backfilling: place backfill no sooner than seven days after application of dampproofing, unless specifically allowed otherwise by manufacturer. Do not rupture or damage the film or displace the coating.

3.4 WASTE MANAGEMENT

- A. Separate waste in accordance with the Waste Management Plan. Refer to Section 01 74 19 for specific requirements.

END OF SECTION