

This specification utilizes the Construction Specifications Institute (CSI) Manual of Practice, including MasterFormat™, SectionFormat™ and PageFormat™. This is a manufacturer-specific proprietary product specification using the proprietary method of specifying applicable to project specifications and master guide specifications. Optional text is indicated by brackets []; delete optional text in final copy of specification. Specifier Notes typically precede specification text; delete notes in final copy of specification. Trade/brand names with appropriate symbols typically are used in Specifier Notes; symbols are not used in specification text. Metric conversion, where used, is soft metric conversion.

This specification specifies **Applied Technologies A-T Sealer Dampproofing & Cavity Wall Coating**. This product is manufactured by Applied Technologies, LLC. Revise section number and title below to suit project requirements, specification practices and section content. Refer to CSI MasterFormat for other section numbers and titles.

SECTION 07 11 13
BITUMINOUS DAMPPROOFING
A-T Sealer

PART 1 GENERAL

1.01 SUMMARY

- A. Section Includes: Fluid-Applied Dampproofing.

Specifier Note: Article below may be omitted when specifying manufacturer's proprietary products and recommended installation. Retain Reference Article when specifying products and installation by an industry reference standard. If retained, list standard(s) referenced in this section. Indicate issuing authority name, acronym, standard designation and title. Establish policy for indicating edition date of standard referenced. Conditions of the Contract or Division 1 References Section may establish the edition date of standards. This article does not require compliance with standard, but is merely a listing of references used. Article below should list only those industry standards referenced in this section.

- B. Related Sections:

1. Section 02320 – Backfill
2. Section 02620 – Subdrainage
3. Section 07212 – Board Insulation: Perimeter and horizontal insulation

1.02 REFERENCES

- A. ASTM International:

1. ASTM C-836 Standard Specification for High Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course.
2. ASTM D-412 Standard Test Methods for Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers-Tension.
3. ASTM D-1653 Standard Test Methods for Water Vapor Transmission of Organic Coating Films.
4. ASTM D-2939 Standard Test Methods for Emulsified Bitumens Used as Protective Coatings.
5. ASTM D-3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber.
6. ASTM D-3274 Standard Test Method for Evaluating Degree of Surface Disfigurement of
7. Paint Films by Microbial (Fungal or Algal) Growth or Soil and Dirt Accumulation.

- B. Federal Specifications

1. TT-C-555B Ability to Resist Hydrostatic Pressure Over Non-Structural Cracks.

1.03 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Division 1 Submittal Procedures Section.
- B. Product Data: Submit manufacturer's product data and installation instructions.
- C. Quality Assurance/Control Submittals: Submit the following:
1. Certificates: Submit certificate that applicator complies with requirements of this section.

Specifier Note: Article below should include prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Division 1 Quality Assurance Section.

1.04 QUALITY ASSURANCE

Specifier Note: Paragraph below should list obligations for compliance with specific code requirements particular to this section. General statements to comply with a particular code are typically addressed in Conditions of the Contract and Division 1 Regulatory Requirements Section. Repetitive statements should be avoided.

- A. Applicator Qualifications: Utilize an applicator trained and approved by the waterproofing manufacturer.

Specifier Note: Article below should include special and unique requirements. Coordinate article below with Division 1 Product Requirements Section.

1.05 DELIVERY, STORAGE & HANDLING

- A. General: Comply with Division 1 Product Requirement Section.
- B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Storage and Protection: Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

1.06 PROJECT/SITE CONDITIONS

- A. Environmental Requirements: Comply with application temperature range of 0-150°F (-18 - 66° C).

PART 2 PRODUCTS

Specifier Note: Retain article below for proprietary method specification. Add product attributes, performance characteristics, material standards, and descriptions as applicable. Use of such phrases as "or equal" or "or approved equal" or similar phrases may cause ambiguity in specifications. Such phrases require verification (procedural, legal and regulatory) and assignment of responsibility for determining "or equal" products.

2.01 DAMPPROOFING

Specifier Note: Paragraph below is an addition to CSI SectionFormat. Retain or delete paragraph below per project requirements and specifier's practice.

- A. Manufacturer: Applied Technologies, LLC
 - 1. Contact: P. O. Box 18476 Fairfield, OH 45018; Telephone: (877) APPLY-IT, (513) 939-3767; Fax: (513) 939-3787; Web site: www.appliedtechnologies.com
- B. Proprietary Products/Systems. Should be purchased directly from Applied Technologies. Fluid-Applied Dampproofing and related products, including the following:
 - 1. Applied Technologies A-T Sealer Dampproofing & Cavity Wall Coating:
 - a. Material: Heavy body cutback asphalt
 - b. Color: Black
 - c. Total Solids Average: 63%.
 - d. Application Method: [Spray] [Brush].
 - e. Coverage Rate: 2-gal/100 ft² (0.82 L/m²).
 - f. Dry Film Thickness: 20 mil (0.5 mm) min.
 - g. Total Cure Time: 24 hours.
 - h. Weight/Gallon: 7.6 lb (3.4 kg).
 - i. Elongation at 70°F (21°C), Minimum: 180%.
 - j. Tensile Strength (ASTM D-412): 32 psi (220 kPa) min.
 - k. Application Temperature Range: 0 - 150°F (-18 - 66°C).
 - l. Ability to Stay in Place (ASTM C-836): 30 mils.
 - m. Durability and Surface Disfigurement Due To Microbial Growth (ASTM D-3273, ASTM D-3274): None.
 - n. Water Vapor Transmission (ASTM D-1653): 0.42 perms.
 - o. Water Solubility (ASTM D-2939):
 - i. Blistering: None.
 - ii. Re-emulsification: None.
 - p. Ability to Resist Hydrostatic Pressure - (Federal Specification TT-C-555B):
 - i. Water Leaks: None
 - ii. Weight Gain: 1.0 oz.

Specifier Note: Edit Article below to suit project requirements. If substitutions are permitted, edit text below. Add text to refer to Division 1 Project Requirements (Product Substitutions Procedures) Section.

2.02 PRODUCT SUBSTITUTIONS

- A. Substitutions: No substitutions permitted.

2.03 ACCESSORY MATERIALS

- A. Provide proprietary accessory materials, including the following:

Specifier Note: Specify mastic below to patch cracks, voids and holes in the concrete or masonry walls, which are to receive dampproofing coating. Applied Technologies Mastic's are made of fiberated, trowel grade, asphalt-based mastic, which is fortified with Bio fiber. These materials adhere tightly to form a strong, flexible bond. They may be used in any weather conditions, including applying to damp or cold surfaces, for patching tie holes and honeycombed areas in both rough and smooth masonry surfaces.

1. Mastic:
 - a. Material: Plastic or resin material compatible with the dampproofing material.

PART 3 EXECUTION

Specifier Note: Article below is an addition to the CSI SectionFormat. Revise article below to suit project requirements and specifier's practice.

3.01 MANUFACTURER'S INSTRUCTIONS

- A. Comply with the instructions and recommendations of the waterproofing manufacturer.

3.02 EXAMINATION

- A. Site Verification of Conditions:
1. Verify that site conditions are acceptable for application of the dampproofing material.
 2. Do not proceed with application until unacceptable conditions are corrected.

3.03 PREPARATION

- A. Surface Preparation:
1. Ensure that the surfaces to receive dampproofing are structurally sound and free of moisture, dust, mud, loose mortar, fins, metal projections or any substances that would be detrimental to the bonding of the material to the surface.
 2. Remove wall ties.
 3. Patch cracks, voids and holes with nonshrink grout or mastic.

Specifier Note: Coordinate article below with manufacturer's recommended application requirements.

3.04 APPLICATION

- A. Spray apply a uniform coat of dampproofing material to entire wall area. Obtain a seamless coating with a minimum dry film thickness of 20 mil (0.5 mm).
- B. Allow material to cure for 24 hours before placing any backfill against the wall.
- C. Follow the current installation instructions.

Specifier Note: Delete article below if not applicable to project.

3.05 INSULATING/DRAINAGE PANEL INSTALLATION

Specifier Note: Edit, retain or delete paragraphs below to comply with project requirements and specifier practices.

3.05 INSULATING/DRAINAGE PANEL INSTALLATION

Specifier Note: Edit, retain or delete paragraphs below to comply with project requirements and specifier practices.

- A. When using the FibR-Dri begin installation of panels after membrane has been applied. Place and secure drainage panels to substrate according to manufacturer's current written instructions.
 1. Install panels from top of footing extending to finish grade level. When FibR-Dri is to be stacked, maintain a factory-equivalent edge at all seams to ensure proper fit and drainage channel alignment.
 2. Secure FibR-Dri to the wall using powder actuated mechanical fasteners. Install top fasteners within 4" (102 mm) of the tops of each panel.
- B. When using the Dimple-Dri roll, install after membrane has been applied. Place and secure to substrate according to manufacturer's current written instructions.

1. Begin installation at a corner. Install horizontally against the waterproofing membrane with the polypropylene geotextile mat side facing out-ward.
2. Install panels from top of footing extending to finish grade level. If there is overlapping off the membrane once you have reached the grade line, a utility knife or similar tool can be used to cut the rolls to the correct height.
3. For good adherence, apply uniform pressure throughout the surface area, not just the edges and corners.
4. When two edges come together from two separate pieces, overlap the dimples to create a continuous coverage of the wall.
5. Secure the Dimple-Dri to the wall with 4" Fasteners (102mm)

Specifier Note: Coordinate article below with Division 1 Execution Requirements (Cleaning) Section.

3.05 CLEANING

- A. Clean spillage and soiling from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.