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This MANU-SPEC® utilizes the Construction Specifications Institute (CSI) *Project Resource Manual* (PRM), including *MasterFormat*™, *SectionFormat*™ and *PageFormat*™. A MANU-SPEC 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 MANU-SPEC specifies fluid-applied air barriers for application to concrete, concrete masonry units and cast-in-place concrete. This product is manufactured by Hohmann & Barnard, Inc. Revise MANU-SPEC 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 20 00
THERMAL PROTECTION

PART 1 GENERAL

Specifier Note: Revise paragraphs below to suit project requirements. Add section numbers and titles per CSI *Masterformat* and specifier's practice.

1.01 SUMMARY

- A. Section Includes: Fluid-applied [vapor permeable] [vapor retardant] air barrier that also acts as a moisture barrier.

1.02 RELATED SECTIONS

Specifier Note: Revise paragraphs below to suit project requirements. If a reader of this section could reasonably expect to find a product or component specified in this section, but is actually specified elsewhere, the related section number(s) should be listed in the paragraph below. Add section numbers and titles per CSI *MasterFormat* and specifier's practice. In the absence of related sections, delete paragraph below.

- A. Division 04 Section: Unit Masonry.
- B. Division 06 Section: Sheathing.
- C. Division 07 Section: Thermal Insulation.
- D. Division 07 Section: Modified Bituminous Sheet Air Barriers.
- E. Division 07 Section: Sheet Metal Flashing and Trim.
- F. Division 07 Section: Joint Sealants.

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 Section 01 42 19 - Reference Standards 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. Retain only those reference standards to be used within the text of this Section. Add and delete as required for specific project.

1.03 REFERENCES

- A. ASTM International (ASTM):
 1. ASTM C1250 Standard Test Method for Nonvolatile Content of Cold Liquid-Applied Elastomeric Waterproofing Membranes.
 2. ASTM E96 Standard Test Methods for Water Vapor Transmission of Materials.
 3. ASTM E2178 Standard Test Method for Air Permeance of Building Materials.

1.04 SYSTEM DESCRIPTION

- A. Cured [vapor permeable] [vapor retardant] membrane, capable of performing as a liquid-water drainage plane and flashed to discharge incidental condensation or water penetration to building exterior. System shall be capable of accommodating substrate movement and sealing of substrate expansion at control joints, construction material changes and transitions at perimeter conditions, without deterioration and air leakage exceeding specified limits.

Specifier Note: Article below includes submittal of relevant data to be furnished by Contractor before, during or after construction. Coordinate this article with Architect's and Contractor's duties and responsibilities in Conditions of the Contract and Section 01 33 00 – Submittal Procedures.

1.05 SUBMITTALS

- A. General: Submit listed submittals in accordance with Conditions of the Contract and Section [01 33 00 – Submittal Procedures] [_____].
- B. Product Data: Submit product data, including manufacturer's SPEC-DATA sheet and installation instructions for specified products.
- C. Certificates: Certify compatibility of air barrier and accessory materials with Project materials that connect to or come in contact with the barrier, signed by product manufacturer.
- D. Qualification Data: For Applicator.
- E. Closeout Submittals:
 1. Warranty: Submit manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under Contract documents.
- F. LEED Documentation Submittals:
 1. Credit EQ 4.2: Manufacturers' product data for fluid-applied coatings, including statement of VOC content and chemical components.
 2. Credit MR 5.1: Product data indicating location of manufacturer for regionally manufactured materials.

Specifier Note: Article below should include statements of prerequisites, standards, limitations and criteria that establish an overall level of quality for products and workmanship for this section. Coordinate article below with Section 01 43 00 Quality Assurance.

1.06 QUALITY ASSURANCE

- A. Regulatory Requirements: In accordance with Section [01 41 00 Regulatory Requirements] [_____].
- B. Applicator Qualifications: Utilize an installer having demonstrated experience on projects of similar size and complexity.

1.07 DELIVERY, STORAGE & HANDLING

- A. General: Comply with [01 61 00 – Common Product Requirements] [_____].
- B. Comply with manufacturer's ordering instructions and lead-time requirements to avoid construction delays.
- C. Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- D. Inspect items upon delivery to ensure that specified products have been received.
- E. Store materials protected from exposure to harmful environmental conditions and at temperature and humidity conditions recommended by the manufacturer.

Specifier Note: In article below, state physical or environmental limitations or criteria for installation such as weather, temperature, humidity, ventilation or illumination required for proper installation or application.

1.08 PROJECT/SITE CONDITIONS

- A. Environmental Requirements: Apply product only when ambient air temperature exceeds 40 degrees F (4 degrees C).

Specifier Note: Coordinate article below with Conditions of the Contract and with Section [01 78 36 – Warranties] [_____] for project warranty provisions.

1.09 WARRANTY

- A. Project Warranty: Refer to Conditions of the Contract and Section [01 78 36 – Warranties] for project warranty provisions.
- B. Manufacturer's Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty document executed by authorized company official. Manufacturer's warranty is in addition to, and not a limitation of, other rights Owner may have under contract documents.

Specifier Note: Coordinate subparagraph below with manufacturer's warranty requirements.

1. Warranty Period: Ten years beginning with date of substantial completion.

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," "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 FLUID-APPLIED AIR & VAPOR BARRIER [TEXTROFLASH LIQUID] & AIR BARRIER [TEXTROFLASH LIQUID VP]

Specifier Note: Paragraph below is an addition to CSI *SectionFormat* and a supplement to MANU-SPEC. Retain, edit or delete paragraph below to suit project requirements and specifier practice.

- A. Manufacturer: Hohmann & Barnard, Inc.
 1. Contact: 30 Rasons Court, Hauppauge, NY 11788-4206; Phone: (631) 234-0600; Fax: (631) 234-0683; e-mail: weanchor@h-b.com; website: www.h-b.com.
- B. Proprietary Products/Systems: TextroFlash Liquid including the following:
 1. Material: Waterproof coating consisting of asbestos-free latex modified asphalt emulsion, formulated with polymers and additives.
 2. Certification: Evaluation Report ESR-1490 Reissued August 1, 2006, ICC Evaluation Service, Inc.
 3. Color: Black.
 4. Cure Time: 4 - 24 hours.
 5. Low Temperature Flexibility: No crack or loss of adhesion.
 6. Air Permeance (ASTM E2178): 0.00159 L/s/n².
 7. Water Vapor Permeance: 0.1 perms, average.
 8. Liquid Water Absorption: < 0.5% by weight.
 9. Bacterial Attack: No degradation.
 10. Algal Attack: No degradation.
 11. Fungal Attack: No degradation.
 12. Re-Emulsification: None.
 13. Volatile Organic Compounds (VOC): None.
 14. Hazardous Air Pollutant (HAP) Chemicals: None.
- C. Proprietary Products/Systems: TextroFlash Liquid VP including the following:
 1. Material: Waterproof coating consisting of asphalt emulsion, formulated with selected colloids.
 2. Color: Black.

3. Cure Time: 4 - 24 hours.
4. Air Permeance (ASTM E2178): 0.00159 L/s/n².
5. Water Vapor Permeance: >5.5 perms, average.
6. Liquid Water Absorption: <0.5% by weight.
7. Bacterial Attack: No degradation.
8. Algal Attack: No degradation.
9. Fungal Attack: No degradation.
10. Re-Emulsification: None.
11. Volatile Organic Compounds (VOC): None.
12. Hazardous Air Pollutant (HAP) Chemicals: None.

Specifier Note: Edit Article below to suit project requirements. If substitutions are permitted, edit text below.

2.02 PRODUCT SUBSTITUTIONS

- A. Substitutions: Substitutions in accordance with Section [01 25 13 – Product Substitution Procedures] [No substitutions permitted] [_____].

2.03 ACCESSORY MATERIALS

- A. Materials recommended by air barrier manufacturer for intended use and compatible with air barrier membrane. Liquid-type auxiliary materials shall comply with VOC limits of authorities having jurisdiction.
- B. Flashing Materials:
 1. Transition Membrane: 40 mil (1 mm) thick laminated polyethylene sheet with clear adhesive.
 - a. Product: Hohmann & Barnard Textroflash Green.
 2. Base Flashing: 40 mil (1 mm) thick membrane formulated with Elvaloy Kee with pressure sensitive clear adhesive.
 - a. Product: Hohmann & Barnard Flex-Flash Flashing.
 3. Drip Edge: Stainless steel.
 - a. Product: Hohmann & Barnard Model # FTSA Drip Plate.
 - b. Product: Hohmann & Barnard Model # DP Drip Plate.
 4. Termination Bar: Stainless steel.
 - a. Product: Hohmann & Barnard Termination Bar.

PART 3 EXECUTION

Specifier Note: Article below is an addition to the CSI *SectionFormat* and a supplement to MANU-SPEC. 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 membrane manufacturer.

Specifier Note: Specify requirements where an unusually high quality of workmanship is required.

3.02 ACCEPTABLE INSTALLERS

- A. [Insert installer information].

Specifier Note: Specify actions to physically determine that conditions are acceptable to receive primary products of the section.

3.03 EXAMINATION

- A. Site Verification of Conditions:
 1. Verify that site conditions are acceptable for application of barrier membrane.

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2. Do not proceed with application of barrier membrane until unacceptable conditions are corrected.

Specifier Note: Specify actions required to physically prepare the surface, area and site, or to incorporate the primary products of the section.

3.04 PREPARATION

- A. Protection: Prior to application, clean surfaces thoroughly in compliance with manufacturer's recommendations.
- B. Surface Preparation: The surface shall be structurally sound, clean and dry and free of dust, mud, loose mortar, sand, soil, frost or other loose materials. Additionally, there shall be no fins, metal projections or any substance that will prevent bonding of the coating membrane to the surface. Fill voids in concrete, tie holes and honeycombed areas in the foundation wall with nonshrinking grout or an asphalt based mastic. Where nonshrinking grout is used for filling voids, allow grout to cure before the membrane is applied. Allow concrete and parged masonry surfaces to cure and dry prior to application of the liquid air barrier membrane.

Specifier Note: Coordinate article below with manufacturer's installation instructions to suit product selection..

3.05 APPLICATION

- A. Apply by spray or brush in 1 or 2 coats at an application rate of approximately 25 ft²/gal (0.6 m²/L) to an application thickness of [60 mil (1.5 mm) wet, yield 40 mil (1 mm) dry for TEXTROFLASH LIQUID] [40 mil (1 mm) wet, yield 20 mil (0.5 mm) dry for TEXTROFLASH LIQUID VP].
- B. Detail transitions and terminations in compliance with manufacturer's recommended details using membrane flashing and metal fabrications.
- C. Allow membrane to cure for 4 - 24 hours after application.

3.06 PROTECTION

- A. Protect installed products until completion of project.
- B. Clean while wet with soap and water. If cured, remove with mineral spirits.
- C. Touch up, repair or replace damaged Work before proceeding with construction on or concealing work.

END OF SECTION