

**Part 1 General**

**1.1 REFERENCES**

- .1 ASTM International Inc.
  - .1 ASTM E96-14, Standard Test Methods for Water Vapour Transmission of Materials
  - .2 ASTM E283-04, Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls and Doors Under Specified Pressure Differences Across the Specimen

**1.2 SUBMITTALS**

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
  - .1 Provide most current technical manufacturer data sheets describing materials' physical properties and include product characteristics, performance criteria, physical size, finish and limitations.
- .3 Test and Evaluation Reports: submit laboratory test reports demonstrating compliance with specification requirements.
- .4 Manufacturer's Installation Instructions.

**1.3 DELIVERY, STORAGE, AND HANDLING**

- .1 Deliver, store and handle products in accordance with manufacturer's printed instructions and recommendations.

**1.4 WASTE MANAGEMENT**

- .1 Separate and recycle in accordance with Section 01 00 10 - General Instructions

**1.5 SITE CONDITIONS**

- .1 Ambient Conditions: to comply with manufacturer's printed requirements

**1.6 WARRANTY**

- .1 Manufacturer to provide written warranty that product may remain exposed to UV and exterior elements with no impact to performance for a period not less than 6 months from the time of installation.

## **Part 2 Products**

### **2.1 PERFORMANCE CRITERIA**

- .1 System: capable of providing continuity of moisture, air and vapour barrier systems of adjacent materials, components and assemblies.
- .2 Compatibility between components of waterproofing system is essential. Provide written declaration to Departmental Representative stating that materials and components, as assembled in system, meet this requirement.

### **2.2 PRIMER**

- .1 Primer: as recommended by membrane manufacturer.

### **2.3 MEMBRANE**

- .1 Self-adhering membrane:
  - .1 Self-adhering membrane consisting of an SBS rubberized asphalt compound integrally laminated to thermoplastic film facer:
    - .1 Thickness: minimum 0.9mm
    - .2 Water vapour transmission: maximum 5 ng/Pa.s.m2 to ASTM E96 dessicant method
    - .3 Air leakage: maximum 0.01 L/s.m2 @ 75 Pa to ASTM E283
  - .2 Accessories:
    - .1 Primer: as recommended by membrane manufacturer to suit substrate material

## **Part 3 Execution**

### **3.1 QUALITY OF WORK**

- .1 Do priming for asphalt waterproofing in accordance with manufacturer's written recommendations.
- .2 Interface of walls, foundations, flashings and roof assemblies to maintain continuity of air, moisture and vapour barriers.

### **3.2 EXAMINATION OF SUBSTRATES**

- .1 Evaluation and Assessment: prior to beginning of work ensure:
  - .1 Substrates are firm, straight, smooth, dry, free of snow, ice or frost, and swept clean of dust and debris. Do not use calcium or salt for ice or snow removal.
  - .2 Gaps, cracks and spans in substrate do not exceed product capabilities and are within membrane manufacturer's tolerances.
  - .3 All exterior wall openings are complete and in-place.

### **3.3 PRIMING**

- .1 Apply primer to substrate in accordance with manufacturer's printed recommendations

### **3.4 APPLICATION**

- .1 Install membrane and accessories components in accordance with manufacturer's printed recommendations.
- .2 Apply self-adhering membrane continuously to properly prepared substrate. Ensure gaps beyond 3mm are covered with reinforcing mesh as recommended by membrane manufacturer
- .3 Overlap all joints and seams minimum 50mm.
- .4 For transitions with adjacent membranes, flashings, roof membrane, door and window frames and service penetrations:
  - .1 Apply primer to all surfaces for self-adhesive membrane prior to membrane installation.
  - .2 Apply membrane to primed surfaces while primer is still tacky and press firmly in place avoiding bubbles, fishmouths and gaps
  - .3 Overlap all joints minimum 50mm

### **3.5 CLEANING**

- .1 Remove bituminous markings from finished surfaces.
- .2 In areas where finished surfaces are soiled caused by work of this section, consult manufacturer of surfaces for cleaning advice and complying with their documented instructions.
- .3 Repair or replace defaced or disfigured surfaces caused by work of this section.

**END OF SECTION**