



# Rub-R-Wall Airtight LIQUID APPLIED AIR/VAPOR BARRIER SYSTEM

## SPECIFICATION

**SPEC NOTE:** This guide specification is basic and must be adapted to suit the requirements of individual projects. It is written in accordance with the Three-Part Section Format but may be rearranged to suit any format required. Square brackets [ ] indicate choice, alternatives, data required for the specifier to make a decision.

### 1 General

#### 1.1 SECTION INCLUDES

- .1 Materials and installation methods for a spray applied air/vapor barrier located in the non-accessible part of the wall.
- .2 Materials and installation to bridge and seal openings and penetrations of window frames, door frames, masonry ties and similar leakage paths in the wall.

#### 1.2 RELATED SECTIONS

- SPEC NOTE:** Re 1.2 Limit the following listings only to sections that have a DIRECT affect on this section.
- .1 Section [ \_\_\_\_\_ ]: Below grade [waterproofing] [damproofing] membrane.  
**SPEC NOTE:** Re 1.2.2. Specify concrete surfaces to be smooth and without large voids, spalled areas or sharp protrusions.
  - .2 Section [ \_\_\_\_\_ ]: Concrete wall construction.  
**SPEC NOTE:** Re 1.2.3. Specify masonry joints to be flush and completely filled with mortar, with all excess mortar sitting on brick ties to be removed.
  - .3 Section [ \_\_\_\_\_ ]: Masonry wall construction.
  - .4 Section [ \_\_\_\_\_ ]: Steel stud wall construction.
  - .5 Section [ \_\_\_\_\_ ]: Insulation.
  - .6 Section [ \_\_\_\_\_ ]: Fire stopping materials.
  - .7 Section [ \_\_\_\_\_ ]: Roofing membrane [and vapor retarder].
  - .8 Section 07900 - Joint Sealers: Sealant materials and installation techniques.  
**SPEC NOTE:** Re 1.2.9 and 1.2.10. Reference all wall appurtenances that penetrate air seal materials or assemblies; as follows.
  - .9 Section [ \_\_\_\_\_ ]: Door frames.
  - .10 Section [ \_\_\_\_\_ ]: Window frames.

#### 1.3 SUBMITTALS

- .1 Product Data: Provide data on material characteristics, performance characteristics, limitations and independent air leakage, sustained wind load and gust wind test data.

#### 1.4 QUALIFICATIONS

- .1 Applicator: Company specializing in performing work of this section approved by air/vapour membrane material manufacturer.

#### 1.5 MOCK-UP

- SPEC NOTE:** Use 1.5 when specifying full sized erected assemblies required for review of construction, coordination of work of several sections, site testing, education of specific trades involved, or observation of installation.
- .1 Provide mock-up of air/vapor barrier materials under provisions of Section [01340].
  - .2 Construct typical exterior wall sample panel, [ \_\_\_\_\_ ] feet long by [ \_\_\_\_\_ ] feet wide, incorporating window and door frame and sill, insulation, and junction with roof membrane, illustrating materials interface and seals.
  - .3 Locate [where directed].
  - .4 Mock-up may [not] remain as part of the work.
  - .5 Allow [24] h for inspection of mock-up by [Consultant] before proceeding with air/vapor barrier work.

#### 1.6 PRE-INSTALLATION CONFERENCE

- .1 Convene [one week] prior to commencing work of this section, under provisions of Section [01040].

#### 1.7 ENVIRONMENTAL REQUIREMENTS

- .1 Ensure application temperature and humidity recommended by material manufacturer is maintained before, during and after installation.

#### 1.8 SEQUENCING

- .1 Sequence work under the provisions of Section [ \_\_\_\_\_ ].
- .2 Sequence work to permit installation of materials in conjunction with related materials and seals.

#### 1.9 CO-ORDINATION

- .1 Co-ordinate work of this section with all sections referencing this section.

### 2 Products

- 2.1 **Air/Vapor Barrier Membrane:** Rub-R-Wall Air/Vapor Barrier, liquid applied 100% rubber copolymer membrane having an air leakage rate of 0.0004 cfm/ ft<sup>2</sup> when tested to ASTM E283, nominal total thickness of 40 mils manufactured by Rubber Polymer Corporation in accordance with physical properties as stated in manufacturer's literature.



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2.2 Transition Strip: Rub-R-Wall SA self-adhering SBS smooth surfaced modified bitumen membrane, nominal 40 mil thickness, width as required.

2.3 Transition Strip Primer: RPC Rub-R-Wall SA primer.

2.4 Substrate Filler: Rub-R-Wall Airtight Mastic manufactured by Rubber Polymer Corporation.

### 3 Execution

#### 3.1 EXAMINATION

- .1 Verify that surfaces and conditions are suitable prior to commencing work of this section.
- .2 Ensure that:
  - .1 surfaces are sound, dry, even, and free of oil, grease, dirt, excess mortar or other contaminants.
  - .2 concrete surfaces are cured and dry, smooth without large voids, spalled areas or sharp protrusions.
  - .3 masonry joints are flush and completely filled with mortar, and all excess mortar sitting on masonry ties has been removed.

#### 3.2 PREPARATION

- .1 Remove loose or foreign matter which might impair adhesion of materials.
- .2 Fill any voids with mastic substrate filler.
- .3 Clean and prime substrate joint/connection surfaces to receive transition strip in accordance with manufacturer's instructions.

#### 3.3 APPLICATION

- .1 Install materials in accordance with manufacturer's instructions.  
**SPEC NOTE:** *Modify the following paragraphs as appropriate to drawing details. Ensure drawings utilize same terminology used in this section. Alternatively, schedule specific applications at end of this section. Liquid air/vapor materials should be placed over firm backup to achieve structural support in order to accomplish an effective and permanent air/vapor seal.*
- .2 Transition joints: Seal with transition strip at beams, columns, changes in substrate material, and similar joints or connections to provide continuity of air/vapor barrier assembly. Generally, apply transition strip so that a minimum of 3" coverage is achieved over both substrates. Position strip over firm bearing.
- .3 Window frame perimeter, and door frames: Lap transition strip from wall substrate with 3" of full contact over firm bearing to window or door frame with 1" of full contact.
- .4 Apply air/vapor barrier membrane within recommended application temperature ranges. Consult manufacturer when membrane cannot be applied within these temperature ranges.
- .5 Using airless spray equipment having a minimum pressure of 3000 psi, apply prime coat of air/vapor barrier membrane over [outer surface of inner white masonry] [over outer surface of inner metal stud wall assembly].
- .6 Use alternating horizontal and vertical passes to ensure complete coverage of substrate and transition strips. Seal masonry anchors or other penetrations air tight.
- .7 Check surfaces again and if necessary, fill any remaining gaps with mastic substrate filler prior to covering with membrane.
- .8 Complete application of membrane at coverage rate of 28 to 32 sq. ft./gal. to provide a seamless, monolithic surface to a thickness of 40 mils.  
**SPEC NOTE:** *Re 3.3.9. Specify installation of board insulation in insulation section of specification or specify here as desired.*
- .9 Adhere insulation to air/vapor barrier membrane after initial set time of approximately 1 to 2 hours, and while membrane is still tacky, to prevent convection currents occurring behind the insulation.

#### 3.4 PROTECTION OF FINISHED WORK

- .1 Protect finished work under provisions of Section [\_\_\_\_\_] - [\_\_\_\_\_].
- .2 Do not permit adjacent work to damage work of this section.

