

SPECIFICATION – RUB-R-WALL AIR/VAPOUR BARRIER

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/vapour 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 vapour 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/vapour barrier materials under provisions of Section [01340].
- .2 Construct typical exterior wall sample panel, [_____] m long by [_____] m 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/vapour 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/Vapour Barrier Membrane: Rub-R-Wall Air/Vapour Barrier, liquid applied 100% rubber copolymer membrane having an air leakage rate of 0.00220 L/s.m² when tested to ASTM E283, nominal total thickness of 1 mm (40 mils) manufactured by Advanced Coatings Inc. in accordance with physical properties as stated in manufacturer's literature.
- 2.2 Transition Strip: Rub-R-Wall SA, composite sheet composed of rubberized asphalt integrally bonded to a high density cross laminated polyethylene, nominal 1.0 mm (40 mils) thickness, width as required, manufactured by Advanced Coatings Inc.
- 2.3 Transition Strip Primer: Rub-R-Wall SA primer manufactured by Advanced Coatings Inc.

- 2.4 Substrate Filler: Rub-R-Wall mastic manufactured by Advanced Coatings Inc.

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/vapour materials should be placed over firm backup to achieve structural support in order to accomplish an effective and permanent air/vapour 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/vapour barrier assembly. Generally, apply transition strip so that a minimum of 75 mm (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 75 mm (3") of full contact over firm bearing to window or door frame with 25 mm (1") of full contact.
- .4 Apply air/vapour 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 20 684 kPa (3000 psi), apply first coat of air/vapour barrier membrane over [outer surface of inner wythe 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 2.6 to 3 m²/4.5 L (28 to 32 sq. ft./gal.) to provide seamless, monolithic surface to a thickness of 1 mm (40 mils).
SPEC NOTE: *Re 3.3.9. Specify installation of board or spray insulation in insulation section of specification or specify here as desired.*
- .9 Adhere insulation to air/vapour 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.