

Part 1 General

1.1 REFERENCES

- .1 Canadian Construction Documents Committee
 - .1 CCDC 2, Stipulated Price Contract.
- .2 Canadian General Standards Board (CGSB)
 - .1 CAN/CGSB-19.13M, Sealing Compound, One Component, Elastomeric Chemical Curing.
 - .2 CAN/CGSB-19.24M, Multi-Component, Chemical Curing Sealing Compound.
 - .3 CGSB 19-GP-14M, Sealing Compound, One Component, Butyl-Polyisobutylene Polymer Base, Solvent Curing.
- .3 Sealant and Waterproofer's Institute - Sealant and Caulking Guide Specification.

1.2 ACTION AND INFORMATIONAL SUBMITTALS

- .1 Provide submittals in accordance with Section 01 33 00 - Submittal Procedures.
- .2 Product Data:
 - .1 Submit manufacturer's printed product literature, specifications and datasheet and include product characteristics, performance criteria, physical size, finish and limitations.
 - .2 Submit WHMIS MSDS - Material Safety Data Sheets.
- .3 Submit drawings stamped and signed by professional engineer registered or licensed in Province of Quebec, Canada.
 - .1 Provide drawings of special joint conditions.
- .4 Quality Assurance Submittals: submit following in accordance with Section 01 45 00 - Quality Control.
 - .1 Existing Substrate Condition: report deviations, as described in PART 3 - EXAMINATION in writing to Departmental Representative.
 - .2 Certificates: submit certificates signed by manufacturer certifying that materials comply with specified performance characteristics and physical properties.
 - .3 Manufacturer's Instructions: submit manufacturer's installation instructions and special handling criteria, installation sequence and cleaning procedures.

1.3 QUALITY ASSURANCE

- .1 Qualifications:
 - .1 Applicator: Installation of primer membranes Air Barrier specified in this section have to be performed by a company recognized by the manufacturer for the installation of these works.

- .2 Mock-Up:
 - .1 Construct mock-up in accordance with Section 01 45 00 - Quality Control.
 - .2 Mock-up may remain as part of finished work.
 - .3 Allow 24 hours for inspection of mock-up by Departmental Representative before proceeding with air/vapour barrier Work.

1.4 DELIVERY, STORAGE AND HANDLING

- .1 Deliver, store and handle materials in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Deliver, store and handle materials in accordance with manufacturer's written instructions.
- .3 Avoid spillage: immediately notify Departmental Representative if spillage occurs and start clean up procedures.
- .4 Clean spills and leave area as it was prior to spill.

1.5 WASTE MANAGEMENT AND DISPOSAL

- .1 Separate waste materials for reuse recycling in accordance with Section 01 74 21 - Construction/Demolition Waste Management and Disposal.
- .2 Place materials defined as hazardous or toxic waste in designated containers.
- .3 Ensure emptied containers are sealed and stored safely for disposal away from children.

1.6 AMBIENT CONDITIONS

- .1 Install solvent curing sealants and vapour release adhesive materials in open spaces with ventilation or ventilate enclosed spaces.
- .2 Maintain temperature and humidity recommended by materials manufactures before, during and after installation.

1.7 SEQUENCING

- .1 Sequence work in accordance with Section 01 32 16.07 - Construction Progress Schedules - Bar (GANTT) Charts.
- .2 Sequence work to permit installation of materials in conjunction with related materials and seals.

1.8 WARRANTY

- .1 For sealant sheet materials the 12 months warranty period prescribed in subsection GC 32.1 of General Conditions "C" is extended to 24 months.

Part 2 Products

2.1 FRONT AIR WOVEN SHEET

- .1 Waterproof membrane: permeable to water vapor, consisting of a weaving son polypropylene laminated to 0.6 mm thick.

2.2 ACCESSORIES

- .1 Sealants: Compatible with air barrier used and recommended by the manufacturer of this one.

Part 3 Execution

3.1 MANUFACTURER'S INSTRUCTIONS

- .1 Compliance: comply with manufacturer's written recommendations or specifications, including product technical bulletins, handling, storage and installation instructions, and datasheets.

3.2 EXAMINATION

- .1 Verify that surfaces and conditions are ready to accept work of this section.
- .2 Ensure surfaces are clean, dry, sound, smooth, continuous and comply with air barrier manufacturer's requirements.
- .3 Report unsatisfactory conditions to Departmental Representative in writing.
- .4 Do not start work until deficiencies have been corrected.
 - .1 Beginning of Work implies acceptance of conditions.

3.3 PREPARATION

- .1 Remove loose or foreign matter, which might impair adhesion of materials.
- .2 Ensure substrates are clean of oil or excess dust; masonry joints struck flush, and open joints filled; and concrete surfaces free of large voids, spalled areas or sharp protrusions.
- .3 Ensure substrates are free of surface moisture prior to application of self-adhesive membrane and primer.
- .4 Ensure metal closures are free of sharp edges and burrs.
- .5 Prime substrate surfaces to receive adhesive and sealants in accordance with manufacturer's instructions.

3.4 INSTALLATION

- .1 Install materials in accordance with drawings and manufacturer's instructions.
- .2 Before installing exterior finish, install the air barrier sheet or panel on the cold side of the exterior walls, to form a continuous barrier.
- .3 To minimize the number of joints, use sheets or panels with the largest possible dimensions.
- .4 Ensure sheets and panels form a continuous barrier. If necessary, repair punctures and rip with sealing tape before hiding the work.
- .5 Cut sheets or panels air barrier dimensions of openings and seal the joints.
- .6 Fasten the air barrier sheet on a wooden stand with staples placed on the lap joints.
- .7 Apply liquid sealant on the substrate, trowel or spray.

- .8 Overlap sealing sheet.
 - .1 Caulking to obtain a perfectly sealed work.
 - .2 Install lap joints on a solid support.
- .9 Install a sealing sheet between the frame of the doors and the windows and adjacent sealing materials walls, using an adhesive.
 - .1 Caulking to obtain a perfectly sealed work.
 - .2 Install lap joints on a solid support.

3.5 FIELD QUALITY CONTROL

- .1 Inform the Departmental Representative that the sections of work are completed so they can be inspected.

3.6 CLEANING

- .1 Proceed in accordance with Section [01 74 11 - Cleaning].
- .2 On completion and verification of performance of installation, remove surplus materials, excess materials, rubbish, tools and equipment.

3.7 PROTECTION OF WORK

- .1 Protect finished work in accordance with Section 01 61 00 - Common Product Requirements.
- .2 Do not permit adjacent work to damage work of this section.
- .3 Ensure finished work is protected from climatic conditions.

END OF SECTION