

**PART 1**      **GENERAL****1.1**      **RELATED SECTIONS**

- .1      Appendix 4 –Vapour Retarders

**1.2**      **REFERENCES**

- .1      Canadian Urethane Foam Contractors' Association Inc. (CUFCA)
- .2      Underwriters' Laboratories of Canada (ULC)
  - .1      CAN/ULC-S101, Fire Endurance Tests of Building Construction and Materials.
  - .2      CAN/ULC-S102, Surface Burning Characteristics of Building Materials and Assemblies.
  - .3      CAN/ULC-S705.1, Standard for Thermal Insulation Spray Applied Rigid Foam, Medium Density, Material Specification.
  - .4      CAN/ULC-S705.2, Standard for Thermal Insulation Spray Applied Rigid Foam, Medium Density, Installer's Responsibilities-Specification.

**1.3**      **QUALITY ASSURANCE**

- .1      Applicators to conform to CUFCA Quality Assurance Program.

**1.4**      **SAFETY REQUIREMENTS**

- .1      Protect workers as recommended by CAN/ULC-S705.2 and manufacturer's recommendations:
  - .1      Workers must wear gloves, respirators, dust masks, eye protection, protective clothing when applying foam sealant.
  - .2      Workers must not eat, drink or smoke while applying foam sealant.

**1.5**      **PROTECTION**

- .1      Ventilate area to receive insulation by introducing fresh air and exhausting air continuously during and 24 hours after application to maintain non-toxic, unpolluted, safe working conditions.
- .2      Provide temporary enclosures to prevent spray and noxious vapours from contaminating air beyond application area.
- .3      Protect adjacent surfaces and equipment from damage by overspray, fall-out, and dusting of insulation materials.
- .4      Dispose of waste foam sealant daily in location designated by Owner's Representative and decontaminate empty drums in accordance with foam sealant manufacturer's instructions.

**1.6 ENVIRONMENTAL REQUIREMENTS**

- .1 Apply foam sealant only when surfaces and ambient temperatures are within manufacturers' prescribed limits.

**PART 2 PRODUCTS****2.1 MATERIALS**

- .1 Low expanding, one-component, polyurethane foam sealant, curing to a semi-rigid, closed cell urethane foam providing a RSI of 0.9 per 25.4 mm. To meet the following physical properties:
  - .1 Density: 25.7 kg/m<sup>3</sup>
  - .2 Compressive Strength Parallel @ 10%: 69-96 psi
  - .3 Tensile Strength: 103 psi
  - .4 Water Vapour Transmission: 5.97 perms
  - .5 Flame Spread: 20
  - .6 Smoke Development: 70

**PART 3 EXECUTION****3.1 APPLICATION**

- .1 Apply foam sealant to clean surfaces in accordance manufacturer's printed instructions. Surfaces to be free of dust, dirt, oil and other foreign materials.
- .2 Cover surfaces not intended to be foamed.
- .3 Apply foam sealant to perimeter of openings indicated and to thickness as recommended by manufacturer. Trim excess cured foam from finished area.
- .4 Cover exposed urethane foam sealants to protect from adverse affects from ultraviolet light (sunlight).

**END OF SECTION**