

**PART 1 GENERAL**

**1.1 Related Sections**

- .1 Section 07 26 00 –Vapour Retarders
- .2 Section 07 27 00.01 – Air Barriers

**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 Test Reports**

- .1 Submit test reports, verifying qualities of foam sealant meet or exceed requirements of this specification.
- .2 Submit test reports in accordance with CAN/ULC-S101 for fire endurance and CAN/ULC-S102 for surface burning characteristics.

**1.4 Quality Assurance**

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

**1.5 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.

**1.6 Protection**

- .1 Ventilate area in accordance with Section 01 51 00 - Temporary Utilities.

- .2 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.
- .3 Provide temporary enclosures to prevent spray and noxious vapours from contaminating air beyond application area.
- .4 Protect adjacent surfaces and equipment from damage by overspray, fall-out, and dusting of insulation materials.
- .5 Dispose of waste foam sealant daily in location designated by Departmental Representative and decontaminate empty drums in accordance with foam sealant manufacturer's instructions.

#### 1.7 Environmental Requirements

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

#### 1.8 Measurement For Payment

- .1 No measurement for payment is to be made under this section. Include costs in unit prices or lump sum for items in which this item is required.

### 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

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**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**