

OPEN CELL FOAM SealTite™ Eplus

Carlisle Spray Foam Insulation's SealTite Eplus system is a spray applied open cell polyurethane foam that contains rapidly renewable polyols as well as recycled products derived from pre and post consumer products.

SealTite Eplus is the only spray foam insulation on the market with the assurance from trusted third party, ULC Evaluation Report No. ER39311-01 for use as cavity wall insulation or sound proofing.

SealTite Eplus utilizes, zero ozone-depleting substances and is designed for use in commercial and residential construction applications that involve the National Building Code of Canada. SealTite Eplus must be applied by certified installers that meet and follow Carlisle SQAP (Site Quality Assurance Program). Carlisle utilizes Caliber Quality Solutions Inc.

SealTite Eplus provides an excellent insulation value and must be used in conjunction with a vapour barrier when used as a thermal protection product. Other benefits include reductions in noise, dust, pollen and pest infiltrations.

For proper use and handling of SealTite Eplus foam installation professionals should refer to the SealTite Eplus Installer Manual and the CAN/ULC S705.2 Rigid Polyurethane Foam Medium Density Application Standard.

TYPICAL PHYSICAL PROPERTIES:

Property	CAN/ULC 07 21 19.03 Requirements	Metric Value (Imperial)	Test
Core Density	> 6.8 kg/ m ³	7 kg/m ³ (0.44 lb ft ³)	ASTM D 1622
Dimensional Stability	At -20C At 80C At 70C, 97% + 3% RH	> -1 > -15; < +10 > -15; < +14	-0.7 -3.1 -5.2 ASTM 2126
Water Absorption	Declare	21%	ASTM D2842
Water Vapour Permeance	> 1400 ng/(Pasm ²)	1548 ng/Pasm ²	ASTM E96
Flame Spread	< 500	420	CAN/ ULC-S127
Smoke Development	NA	245	ASTM S102
Volatile Organic Compounds (VOC)*	Declare	24 hours	CAN/ULC-S774
Initial R Value (Per 25 MM)	Declare	0.61 (R3.5/in.)	ASTM C 518

Minimum allowable limit for VOC occupancy is 24 hours with 0.3 air changes per hour.





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ADVANTAGES:

- Stops Air Infiltration
- High Yield
- Low Viscosity Resin
- Ease of Application
- Zero ODP
- Seamless Insulation

APPLICATION INFORMATION:

STORAGE AND USE OF CHEMICALS: Cold A & B components can cause poor mixing, pump cavitation, or other process problems due to higher viscosity. Condition and maintain the liquid A Iso and B resin component the drum to 60–90°F (15–32°C) prior to use. Electric band heaters are recommended for pre conditioning of A and B components. Do not store in direct sunlight. Keep drums tightly closed when not in use. Shelf life resin (B component) is 6 months from date of manufacture.

SAFE HANDLING OF LIQUID COMPONENTS: When removing bungs from containers use caution, contents may be under pressure. Loosen bung first and let any built up gas escape before completely removing. Avoid prolonged breathing of vapours. All individuals in contact with SealTite Eplus and SealTite ISO liquids should have access and familiarize themselves to the SDS. Kit sizes are 432 kgs (227kg A and 205kg B).

MIXING AND FLUSHING OF HEATED HOUSE: B component must be mixed at the beginning of each day using a high speed, 3/4 HP pneumatic driven mixer with a minimum of 2 sets of 3 collapsible blades. Mix on high speed for a minimum of 20 minutes or until B component is thoroughly mixed. A component does not require mixing.

Purge B component line with the freshly mixed B component. Recirculate the old B component material back into the top of the existing B side drum and continue mixing thoroughly. A component does not require recirculation or mixing.

EQUIPMENT AND COMPONENT SETTINGS: Polyurethane foam systems should be processed through 1:1 fixed ratio spray equipment. SealTite Eplus B-side (white drum) is connected to the resin pump and the SealTite ISO A-side (black or red drum) is connected to the isocyanate pump. The pre-heaters should be set between 130–160°F (54°C–71°C) and the hose heat is able to maintain +5° F (2°C) of the primary temperature right to the spray gun. Proportioner pumps must be able to maintain at least 1000–1200 psi output during spray (dynamic spray pressure). Gun recommendation is an AP (Air Purge) spray gun utilizing a 01 or 02 tip size.

APPLICATION GUIDELINES: SealTite Eplus is suitable for application to most construction materials including wood, masonry, concrete, and metal. All surfaces to be sprayed with foam should be clean, dry and free of dew or frost. All metal to which the foam is to be applied must be free of oil, grease, etc. Substrate temperature at the time of the SealTite Eplus application should be between 40°F–120°F (5°C–49°C). For temperatures outside of this range consult the Carlisle Technical Services department prior to application. Spray polyurethane foam insulation is combustible and should be kept away from intense heat sources.

CODE COMPLIANCE: The National Building Code of Canada requires the use of ½ inch gypsum board, intumescent paint, or other approved thermal barriers over any exposed cellular plastic insulation for occupied spaces.



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