CARLISLE SPRAY FOAM INSULATION

TECHNICAL DATA SHEET - CANADA ONLY

OPEN CELL FOAM
SealTite™ Pro OC

SealTite PRO Open Cell is a two component, light density, one to one by volume spray-applied polyurethane foam. SealTite PRO Open Cell is an insulation system designed for use in commercial and residential applications. Use in lieu of more traditional forms of insulating materials such as fiberglass, cellulose or other loose fill products. Typical area's where SealTite PRO Open Cell is applied are exterior and interior walls, vented attics, un-vented attic assemblies and between floors. SealTite PRO Open Cell contains ZERO ozone depleting blowing agents.

SealTite Pro OC is third party verified by the ULC Evaluation Report No. ER39311-04 for use as cavity wall insulation or sound proofing and is designed for use in commercial and residential construction applications that involve the National Building Code of Canada. SealTite Pro OC must be applied by certified installers that meet and follow Carlisle SQAP (Site Quality Assurance Program). Carlisle utilizes Caliber Quality Solutions Inc.

SealTite Pro OC 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 Pro OC foam installation professionals should refer to the SealTite Pro OC Installer Manual and the CAN/ULC S712.2 Semi Rigid Polyurethane Foam Light Density Application Standard.

TYPICAL PHYSICAL PROPERTIES:

Property		CAN/ULC S712.1 Requirements	Metric Value (Imperial)	Test
Core Density		> 6.8 kg/ m³	8 kg/m³ (0.50 lb ft²)	ASTM D 1622
Dimensional Stability	At -20C At 80C At 70C, 97% + 3% RH	> -1; < +10 > -15; < +10 > -15; < +14	-1.0% -6.0% -6.0%	ASTM 2126
Air Permeance		Declare	0.21 L(s/m2)	ASTM E2178
Fungi Resistance		No Growth	No Growth	ASTM C1338
Open Cell Content		>80%	97.2%	ASTM D6226
Water Absorption		50%	46.4%	ASTM D2842
Water Vapour Permeance		> 1400 ng/(Pasm²)	970 ng/Pa.s.m²	ASTM E96
Flame Spread		< 500	365	CAN/ ULC-S127
Flame Spread		NA	190	CAN/ULC-S102
Smoke Development		NA	280	CAN/ULC- S102
Volatile Organic Compounds (VOC)•		Declare	25 hours	CAN/ULC-S774
R Value (Per 25 MM)		>0.60	0.61 (R3.5/in.)	ASTM C 518

Minimum allowable limit for VOC occupancy is 25 hours with 0.3 air changes per hour.

SealTite™

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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 60–90ºF (15–32ºC) 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 Pro OC and Component A liquids should have access and familiarize themselves to the SDS. Kit sizes are 442 kgs (227kg A and 215kg B).

MIXING AND FLUSHING OF HEATED HOUSE: B component must be mixed at the begining 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 Pro OC 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 115–140°F (46°C–60°C) and the hose heat is able to maintain +/- 5° F (2ºC) 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 Pro OC is suitable for application to most construction materials including wood, masonry, concreate, 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 Pro OC application should be between 50ºF–120ºF (10ºC–49ºC). 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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