



AirTight CC

Closed-Cell Spray Foam Insulation
ICC ESR-2629

Product Design

AirTight™ CC is a **closed-cell** spray applied foam, which was developed using an EPA approved next generation blowing agent which when installed following application guidelines adheres tenaciously to framing members and substrates. AirTight™ CC **closed-cell** spray foam provides superior energy economy and durability while significantly reducing unmanaged moisture and air infiltration

Product Use

As a component of a “systems approach” to proper building envelope construction, AirTight™ CC **closed-cell** spray foam provides exceptional performance in deducting heat transfer, moisture gain and improving racking strength.

Recommended Product Applications

- Walls
- Floors
- Unvented Crawl Spaces
- Concrete Slabs
- Cold Storage
- Unvented Attics
- Vented Attics
- Vented Crawl Spaces
- Ducts
- Freezers
- Ceilings
- Piping
- Foundations
- Tanks
- Coolers

Recommended Processing Parameters

Processing Designation:	Regular
Ambient Temperature:	50-120°F

Optimum hose pressure and temperature may vary as a function of the type of equipment, ambient and substrate conditions, and the specific application. It is the responsibility of the applicator to properly interpret equipment technical literature, particularly information that relates acceptable combinations of gun chamber size, proportioner output, and material pressures.

Processing Designation:	AirTight CC
Equipment Dynamic Pressure:	1,000 - 1,400 psi
Preheat Temperature	125 - 135 ° F (52 - 57° C)
Hose Heat Temperature	125 - 135 ° F (52 - 57° C)
Drum Temperature: Storage	65 - 85° F (18 - 30° C)

Material shelf life: **6 months** when stored within recommended temperature range.

2:1 transfer pumps are recommended for material transfer from container to the proportioner.

CAUTION: Extreme care must be taken when removing and reinstalling drum transfer pumps so as NOT to reverse the “A” and “B” components.

Do not configure equipment to recirculate AirTight CC from proportioner

back into drum. Do not recirculate or mix other suppliers’ “A” or “B” component into AirTight containers.

Physical Properties

Properties	Test Method/ Requirements	Value
Aged “R” Value:	ASTM C-518	6.3 per inch
Compressive Strength:	ASTM D-1621	25-30 psi
Core Density:	ASTM D-1622	2.0-2.3 lbs./ft3
Closed Cell Content:	ASTM D-2856	>90%
Tensile Strength:	ASTM D-1623 15 minimum	40-48 psi
Water Vapor Transmission @ 74°F, perm inch	ASTM E-96 2.5 max	1.98 perms @ 1”
Dimensional Stability: 28 days at 160°F, 100%RH	ASTM D-2126 15% max by volume change	4%
Sound Transmission Co-Efficient	ASTM E-90-85/ E413 Sound Transmission Loss in dB	38

Credentials/Certifications

- ICC ESR-2629**
- CAN/ULC S705.1**

AirTight CC is a **Class I** formulation, as Tested per ASTM E84, and possess the flammability characteristics shown:

ASTM Method E84	Class I	Class II	Class III
Flame Spread	≤25 AirTight CC ≤10	≤75	Non Rated
Smoke Development	≤450	≤450	Non Rated

Room Corner Fire Testing

NFPA 286	
Location	SPF Thickness
Wall Cavities	Up to 12in (305mm)
Ceiling Cavities	Up to 12in (305mm)



ENERGY SAVINGS FOR LIFE



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Rev. Date 04/22/09

Diversified	
Location	SPF Thickness
Wall Cavities	Up to 7in (178mm)
Ceiling Cavities in Attics	Up to 15in (385mm)

Thermal Barrier

IRC and IBC codes require that SPF be separated from the interior of a building by an approved fifteen (15) minute thermal barrier, such as 1/2" gypsum wall board or equivalent, installed per manufacturer's instructions and corresponding code requirements. There are exceptions to the thermal barrier requirement: (1) Code authorities may approve coverings based on fire tests specific to the SPF application. For example, covering systems that successfully pass large scale tests may be approved by code authorities in lieu of a thermal barrier; (2) SPF protected by 1" thick masonry does not need a thermal barrier. Certain materials that offer protection from ignition, called "ignition barriers," may not be considered as thermal barrier alternatives unless they comply with NFPA 286 or other full-scale burn tests. Applicators should request test data and code body approvals or other written indications of acceptability under the code to be sure that the product selected offers code-compliant protection. Applicators should ensure the safety of the jobsite and construction personnel by posting appropriate signs warning that all "hot work" such as welding, soldering, and cutting with torches should take place no less than 35 feet from any exposed foam. If "hot work" must be performed all spray polyurethane foam should be covered with an appropriate fire or welder's blanket, and a fire watch should be provided.

Vapor Retarder

AirTight CC qualifies as a vapor retarder as defined by the International Code Council and ASHRAE (class II) at a minimum thickness of 2 inches. Building construction types with a persistent, high moisture drive require additional moisture remediation, as local building codes dictate. This is including climate zones 5 and higher in the U.S., as defined in 2004 Supplement to the IRC, Table N1101.2.

Handling and Safety

Respiratory protection is **MANDATORY!** Contact Lapolla Industries for a copy of the Model Respiratory Protection Program developed by API or visit their website at www.polyurethane.org. Persons with known respiratory allergies should avoid exposure to the "A" component. The "A" component contains reactive isocyanate groups while the "B" component contains amine and/or catalysts with blowing agents. Both materials must be handled and used with adequate ventilation. The vapors must not exceed the TLV (0.02 parts per million) for isocyanates. Avoid breathing vapors. Wear a NIOSH approved respirator. If inhalation of vapors occur, remove victim from contaminated area and administer oxygen if breathing is difficult.

Call a physician immediately. Avoid contact with skin, eyes, and clothing. Open containers carefully, allowing any pressure to be relieved slowly and safely. Wear chemical safety goggles and rubber gloves when handling or working with these materials. In case of eye contact, immediately flush with large amounts of water for at least fifteen minutes. Consult a physician immediately. In case of skin contact, wash area with soap and water. Wash clothes before reuse.

In Case of Spills or Leaks Steps To Be Taken-

- Utilize appropriate personal protective equipment (PPE.)
- Contain and cover spilled material with a loose, absorbent material such as oil-dry, vermiculite, sawdust or Fuller's earth.
- Shovel absorbent waste material into proper waste containers
- Wash the contaminated areas thoroughly with hot, soapy water.
- Ventilate area to remove vapors.
- Report sizeable spills to proper environmental agencies.

In Case of Fire

Extinguishing Media-Dry chemical extinguishers such as mono ammonium phosphate, potassium sulfate, and potassium chloride. Additionally, carbon dioxide, high expansion (proteinic) chemical foam, or water spray for large fires.

DISCLAIMER

The data presented herein is not intended for use by nonprofessional applicators, or those persons who do not purchase or utilize this product in the normal course of their business. The potential user must perform any pertinent tests in order to determine the product's performance and suitability in the intended application, since final determination of fitness of the product for any particular use is the responsibility of the buyer.

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