

CLOSED-CELL

2 LB · HFO BLOWN

ComfortSeal HFO

Medium-density, semi-rigid spray polyurethane foam insulation

R-25

at 3.5 in. · IAPMO ER-975

2.0 pcf

core density

>92%

closed-cell content

GWP 1

HFO blowing agent

PRODUCT DESCRIPTION

ComfortSeal HFO is a two-component, medium density, semi-rigid, 2 lb closed-cell spray applied polyurethane foam insulation system. It uses a high-performance HFO blowing agent with a Global Warming Potential of 1 (GWP 1). Applied as a liquid spray, it expands approximately 15 times its initial volume and cures within seconds to form a semi-rigid mass — effectively sealing cracks, crevices, and voids where air loss and infiltration are most common.

PHYSICAL PROPERTIES

PROPERTY	VALUE	TEST METHOD
R-Value (installed)	R-7.3 @ 1 in · R-25 @ 3.5 in · R-39 @ 5.5 in	C518 · ER-975
Core Density	2.0 pcf	ASTM D1622
Closed-Cell Content	>92%	ASTM D2856
Compressive Strength	29.5 psi	ASTM D1621
Tensile Strength	56.8 psi	ASTM D1623
Water Absorption	1.44% change	ASTM D2842
Water Vapor Permeance	0.45 perms @ 2 in	ASTM E96
Dimensional Stability	6.5%	ASTM D2126
Wind Uplift Resistance	210 psf	UL 1897
Fungi Resistance	No growth	ASTM G21

The R-value per inch of this insulation varies with thickness. The thicker the insulation, the lower the R-value per inch. R-7.3 per inch at 1 in.; R-7.0 to R-7.1 per inch at 3.5 to 12 in. (IAPMO ER-975, Table 1).

FIRE TEST DATA

TEST	RESULT	TEST METHOD
Flame Spread	Class I — Pass (≤25)	ASTM E84
Smoke Developed Index	Class I — Pass (≤450)	ASTM E84
Thermal Barrier	Pass with DC315 or No-Burn Plus ThB at 14 mils WFT / 9 mils DFT	NFPA 286
Ignition Barrier (Appendix X)	No coating required in attics & crawl spaces entered only for service	ICC-ES AC377

LIQUID COMPONENT PROPERTIES	PROPERTY	A-SIDE (ISO)	B-SIDE (RESIN)
	Color	Brown	Amber
	Viscosity @ 77°F / 25°C	185–230 cps	400–520 cps
	Specific Gravity	1.25	1.17–1.19
	Storage Temperature	70–80°F (21–27°C)	70–80°F (21–27°C)
	Mixing Ratio (by volume)	1 : 1	1 : 1
	Shelf Life (unopened drums)	6 months	6 months

PROCESSING PARAMETERS	PARAMETER	TARGET
	Processing Pressure	1200–1450 psi
	Primary Heater (initial)	110–120°F (43–49°C)
	Hose (initial)	110–120°F (43–49°C)
	Recirculation	Do not recirculate. Gradually warm drums to 75°F before use.
	Substrate & Ambient Temp.	>45°F summer / >14°F winter (>7°C S / >–10°C W)
	Substrate Moisture Content	<18%
	Maximum Thickness per Pass	3 in. (IAPMO ER-975 §4.5)

APPLICATION NOTES

Application processing temperatures vary with indoor and outdoor ambient temperature, substrate temperature, humidity, elevation, substrate type, equipment, and other factors. While manufacturing spray foam on-site, the applicator must continuously observe the sprayed foam and adjust processing temperatures and pressures to maintain optimal cell structure, adhesion, and overall foam quality.

It is the sole responsibility of the applicator to manufacture ComfortSeal polyurethane spray foam on-site within the manufacturer's recommended specifications.

SUBSTRATE	SURFACE	EQUIPMENT
At least 10°F above dew point	Free of frost, oil, rust, dust and debris	Consistent 1:1 by volume, ≥1200 psi, reaches target temps
CODE LIMITS E84 tested at up to 4 in. Max. foam with DC315 thermal barrier: 5.5 in. walls / 9.5 in. ceilings; with No-Burn Plus ThB: 7 / 10 in. Uncoated in service-only attics and crawl spaces: up to 10 in. roof deck / 6 in. walls (ER-975 §4.5.2). Nonstructural; Type V (IBC) and one- and two-family dwellings (IRC).		

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