

# Gaco Western

S I N C E 1 9 5 5

## Product Data Sheet:

GacoEZSpray F4500

January 2018

Supersedes October 2017

### GacoEZSpray F4500 OPEN CELL SPRAY FOAM INSULATION

#### **DESCRIPTION**

GacoEZSpray F4500 is a two-component water-blown (zero ozone-depleting) liquid spray system that cures to a low-density cellular polyurethane insulation material. This open cell foam is designed to provide: good thermal performance; air impermeable insulation; and, an integral part of an air barrier assembly.

GacoEZSpray F4500 has been tested as a Class A (Class 1) fire rated foam that meets the requirements of ICC-ES AC377 *Acceptance Criteria for Foam Plastic Insulation*.

#### **RECOMMENDED USES**

GacoEZSpray F4500 will provide good performance in a wide range of residential, commercial and industrial applications where in service temperatures are between -40°F and 200°F. Acceptable uses for this product include: walls, ceilings, floors, attics and crawlspaces.

#### **PHYSICAL PROPERTIES**

The following preliminary physical property tests were conducted in accordance ICC-ES AC377.

PROPERTY *	ASTM TEST	VALUE	UNIT
Core Density	D1622	0.50 ± 10%	Lbs./ft <sup>3</sup>
Aged R-Value **	C518	R4.1 at 1" ***	h·ft <sup>2</sup> ·°F/Btu
	C518	R15.3 at 4" ***	h·ft <sup>2</sup> ·°F/Btu
Tensile Strength:	D1623	3.3	psi
Water Vapor Permeance:	E96 – Method A	44.4	perm-in
Dimensional Stability (7 Days)	D2126	5%	Max linear change
Open Cell Content	D2856	>90	%
Air Permeance @ 75Pa	E2178	0.002	L/s·M <sup>2</sup>
Fungi Resistance	C1338	Pass	no growth
Critical Radiant Heat Flux	NFPA 970	Pass	>0.12 W/cm <sup>2</sup>
Hot Surface Performance of High Temperature Thermal Insulation	ASTM C411	Pass	Did not flame, glow, smolder or smoke

\*These items are provided for general information.

\*\*Federal Trade Commission regulations published in the Federal Register 16 CFR Part 460 require that R value testing of polyurethane foam insulation must be conducted on aged samples at a 75°F mean test temperature. Failure to comply can result in substantial fines by the FTC.

\*\*\*To determine R values for thickness not listed:

- between 1 inch and 3.5 inch can be determined through linear interpolation; or,
- 3.5 inches or greater can be calculated based on R 3.83/inch.

#### **SURFACE BURNING CHARACTERISTICS**

Meets Class A (Class 1) requirements when tested in accordance with ASTM E84 (UL 723) as defined in NFPA 101 and Section 803 of the International Building Code (2009, 2012, 2015).

SYSTEM	THICKNESS	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
GacoEZSpray F4500	4" (10.2 cm)	0	300



GacoEZSpray F4500 is approved for installation on attic floors without a protective coating or ignition barrier based on testing in accordance with NFPA 970.

GacoEZSpray F4500 is approved for contact with ducts in accordance with 2012 IRC Section M1601.3 based on test ASTM C411.

**LARGE SCALE FIRE TESTING**

TEST	PERFORMANCE	LOCATION	FOAM THICKNESS / COATING
AC377	Ignition Barrier	Vertical surfaces	Up to 10" (25.4 cm) / DC315 - 4 mil wet
		Horizontal or sloped surfaces	Up to 16" (40.6 cm) / DC315 - 4 mil wet
NFPA 286	Thermal Barrier	Vertical surfaces	Up to 10" (25.4 cm) / DC315 - 18 mil wet
		Horizontal or sloped surfaces	Up to 16" (40.6 cm) / DC315 - 18 mil wet

GacoEZSpray F4500 meets the IBC Chapter 26 requirements for use in Type I, II, III, IV construction types through evaluation to NFPA 285. This evaluation is limited to installation in the cells of concrete masonry units and within light-gauge metal framing sheathed with 5/8 inch Type X gypsum.

**TYPICAL LIQUID CHEMICAL PROPERTIES**

"A" Component contains polymeric isocyanate. "B" Component contains polyol, catalysts, fire retardants, surfactants and blowing agent.

PROPERTY	TEST TEMPERATURE	ASTM TEST	VALUE	UNIT
Viscosity – "A" Component:	77°F (25°C)	D2196	200 ± 50	cps
Viscosity – "B" Component:			920 ± 50	cps
Weight/Gallon – "A" Component:	77°F (25°C)		10.34	lbs/gal
Weight/Gallon – "B" Component:			9.1	lbs/gal
Mixing Ratio – "A" & "B" Component			1:1	By volume
Stability When Stored at 50°F to 100°F (10°C to 38°C)			A Component – 6 B Component – 6	Months Months

**APPLICATION**

To ensure optimum performance, a minimum pass thickness of 1" (2.54 cm) is recommended with no limit to maximum pass thickness. To obtain optimum results substrate temperature should be within the ranges as stated below. All substrates must be dry at the time of application. Do not apply to wood surfaces with a moisture content of above 18%.

Material	Substrate Temperature
GacoEZSpray F4500	40°F to 120°F (4°C to 49°C)

EQUIPMENT SETTINGS		REACTIVITY TIME	
Pre-Heaters - Iso (A):	110°F to 140°F (43°C to 60°C)	Cream Time:	1 second
Pre-Heaters - Poly (B)	110°F to 140°F (43°C to 60°C)	Rise Time:	3 - 4 seconds
Hose Heat:	110°F to 140°F (43°C to 60°C)	Tack Free Time:	5 seconds
Recommended Spray Pressure:	1,200 to 1,400 psi (dynamic)	Cure Time:	4 hours

The information herein is believed to be reliable but unknown risks may be present. ALL WARRANTIES OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND THAT GOODS ARE OF MERCHANTABILITY QUALITY, ARE SPECIFICALLY DISCLAIMED. See Gaco Western for information concerning its limited warranty and its availability.

For specific Safety and Health information please refer to Safety Data Sheet.

