

Gaco Western

S I N C E 1 9 5 5

Product Data Sheet:

GacoFireStop2 F5001

July 2014

Supersedes 9/13

GACOFIRESTOP2 F5001 OPEN CELL SPRAY FOAM INSULATION

DESCRIPTION

GacoFireStop2 F5001 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.

GacoFireStop2 F5001 is a Class A fire rated foam that meets the requirements of ICC-ES AC377 *Acceptance Criteria for Foam Plastic Insulation*. See Intertek Research Report IRR 1009 for code compliant application information.

RECOMMENDED USES

GacoFireStop2 F5001 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 physical property tests were conducted by independent certified laboratories with traceable samples in accordance ICC-ES AC377.

PROPERTY*	ASTM TEST	VALUE	UNIT
Core Density	D1622	0.50 ± 10%	lbs/ft ³
Aged R-Value**	C518	R 4.1 at 1" ***	h·ft ² ·°F/Btu
	C518	R 14 at 3.5" ***	h·ft ² ·°F/Btu
Tensile Strength:	D1623	3.29	psi
Water Vapor Permeance:	E96 – Method A	32	perm-in
Dimensional Stability (7 Days):	D2126	-13	% volume change
Open Cell Content:	D2856	96	%
Air Permeance @ 75Pa	E283	0.014 at 1.0"	L/s·M ²

*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 4 inch can be determined through linear interpolation; or,
- greater than 4 inches can be calculated based on R 3.94/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).

SYSTEM	THICKNESS	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
GacoFireStop2 F5001	3.5" (15.2 cm)	10	350



LARGE SCALE FIRE TESTING

Test	Performance	LOCATION	FOAM THICKNESS / COATING
AC377, Appendix X	Ignition Barrier	Attic and Crawlspace	Up to 15" (38.1 cm) / No coating required
NFPA 286	Thermal Barrier	Any	Up to 18" (45.7 cm) / DC315 - 18 mil wet

LEED INFORMATION

GacoFireStop2 F5001 has a minimum of 20% rapidly renewable materials content. GacoFireStop2 F5001 raw materials are blended in Waukesha, WI. Actual polyurethane foam end product production is done on-site by the applicator.

TYPICAL LIQUID CHEMICAL PROPERTIES

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

PROPERTY	TEST TEMPERATURE	ASTM TEST	VALUE	UNIT
Viscosity – "A" Component: Viscosity – "B" Component:	77°F (25°C)	D2196	200 ± 50 4,000 ± 500	cps cps
Weight/Gallon – "A" Component: Weight/Gallon – "B" Component:	77°F (25°C)		10.35 9.99	lbs/gal lbs/gal
Mixing Ratio – "A" & "B" Component			1:1	By volume
Stability When Stored at 60°F to 100°F (16°C to 38°C); Do not store B Component below 40°F			A Component – 12 B Component – 6	Months Months

APPLICATION

To ensure optimum performance, a minimum pass thickness of 1" (2.54 cm) is recommended with not 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
GacoFireStop2 F5001	40 to 120°F (4.4 to 48.9°C)

EQUIPMENT SETTINGS	VALUE
Pre-Heat: Iso (A)	90°F to 135°F (32°C to 57°C)
Pre-Heat: Poly (B)	90°F to 135°F (32°C to 57°C)
Hose Heat	90°F to 135°F (32°C to 57°C)
Recommended Spray Pressure	1,200 to 1,500 psi (dynamic)

PRODUCT CHARACTERISTICS	VALUE
Cream Time	0 - 1 sec
Rise Time	2 - 5 sec
Tack Free Time	2 - 5 sec
Cure Time	1 hour

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

