

# Gaco Western

S I N C E 1 9 5 5

## Product Data Sheet:

GacoFireStop2 F5001

March 2019

Supersedes 9/16

### GacoFireStop®2 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 (Class 1) 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 to 200 °F (-40 °C to 93 °C). 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%	lb/ft <sup>3</sup>
Aged R-Value**	C518	R 4.1 at 1" (25.4 mm)***	h·ft <sup>2</sup> ·°F/Btu
	C518	R 14 at 3.5" (88.9 mm) ***	h·ft <sup>2</sup> ·°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" (25.4 mm)	L/s·m <sup>2</sup>

\*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 (24 °C) mean test temperature. Failure to comply can result in substantial fines by the FTC.

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

- between 1" (25.4 mm) and 4" (101.6 mm) can be determined through linear interpolation; or,
- greater than 4" (101.6 mm) 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" (88.9 mm)	10	350

#### LARGE SCALE FIRE TESTING

Test	Performance	LOCATION	FOAM THICKNESS / COATING
AC377, Appendix X	Ignition Barrier	Attic and Crawlspaces	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)	---	10.34 9.99	lb/gal lb/gal
Mixing Ratio – "A" & "B" Component	---	---	1:1	by volume
Stability When Stored at 50 °F to 70 °F (10 °C to 21 °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 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 °F to 120 °F (4 °C to 49 °C)

EQUIPMENT SETTINGS		REACTIVITY TIME	
Pre-Heaters - Iso (A):	100 °F to 135 °F (38 °C to 57 °C)	Cream Time:	1 second
Pre-Heaters - Poly (B):	100 °F to 135 °F (38 °C to 57 °C)	Rise Time:	3 - 4 seconds
Hose Heat:	100 °F to 135 °F (38 °C to 57 °C)	Tack Free Time:	5 seconds
Recommended Spray Pressure:	1,200 to 1,400 psi (dynamic)	Cure Time:	1 hour

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 MERCHANTABLE 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.

