

Gaco Wall Foam

SPRAY POLYURETHANE FOAM INSULATION
by Gaco Western®

ENERGY-EFFICIENT.

STRONG.

HEALTHY.

RESPONSIBLE.

QUIET.

SMART

FROM THE START.

Gaco ONE Pass™

CLOSED CELL FOAM

CONTRACTOR / APPLICATOR BENEFITS

4" PASSES. Installs quickly in up to 4" passes; saves time and reduces labor costs.

EXCEPTIONAL SPRAYABILITY. Superior formulation provides consistent, forgiving, user friendly foam with predictable yields and less gun clogging.

LESS VISCOUS. Reduces wear and tear on equipment.

LOWER ODOR. Improves work environment.

EXCELLENT ADHESION. Ideal for use on all types of substrates.

OWNER / SPECIFIER BENEFITS

ENERGY EFFICIENT. Higher R-values than conventional insulation and a seamless air barrier reduce uncontrolled air leakage resulting in lower energy costs.

DESIGN FLEXIBILITY AND STRENGTH. Adheres to the substrate, allowing for easy monolithic installation for greater structural strength and stability, and enhances resistance to water damage; expands to fill even irregularly shaped and hard to reach areas.

SUSTAINABLE AND HEALTHY. Reduces condensation, moisture and mold, provides a sound barrier to help block airborne noise, contains no ozone-depleting chemicals and may contribute up to 20 LEED credits.

LOWER CONSTRUCTION COSTS/VALUE ENGINEERING. Achieve insulation, air barrier, vapor retarder and thermal break all in one for reduced material costs; energy efficiency results in smaller HVAC system requirements.

LONG TERM VALUE. Customers today are concerned about their building's integrity; spray foam helps a building withstand the tests of the elements and time.



GacoOnePass Closed Cell Foam Product Data Sheet | September 2015

GacoOnePass is a two component HFC-blown (zero ozone-depleting) liquid spray system that cures to a medium-density rigid cellular polyurethane insulation material. GacoOnePass contains polyols derived from naturally renewable oils, post-consumer recycled plastics, and pre-consumer recycled materials. GacoOnePass 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 Code Compliance Research Report CRR-1043 for code compliant application information. GacoOnePass F1850R is a Type II foam in accordance with ASTM C1029.

GacoOnePass is designed to be installed in up to four inch passes when insulation instructions are followed. This closed cell foam is designed to provide: excellent thermal performance; air impermeable insulation; and, an integral part of an air barrier assembly. It will provide excellent performance in a wide range of residential, commercial and industrial applications where in service temperatures are between -40°F and 200°F.

PHYSICAL PROPERTIES

The following physical property tests were conducted by independent certified laboratories with traceable samples in accordance ICC-ES AC377 and ASTM C1029 for Type I foam.

PROPERTY	ASTM TEST	VALUE	UNIT
Core Density:	D1622	2.1 ± 10%	lbs/ft ³
Aged R-Value*:	C518	R 6.5 at 1", R 25 at 3.5" (R 7.2 per inch at > 3.5")	h · ft ² · °F/Btu
Compressive Strength (Parallel to Rise):	D1621	28.5	psi
Tensile Strength:	D1623	39.7	psi
Water Vapor Permeance:	E96 – Method A	0.44	perm-in
Dimensional Stability at 158°F and 97% RH:	D2126	L=4.2%, W=5.1%, T=1.2%	% linear change
Open Cell Content:	D2856	4.4	%
Air Permeance @ 75 Pa (Infiltration/Exfiltration):	E2178	0.00 at 1"	L/s · M ²
Fungi Resistance:	C1338	Pass	no growth
Hot Surface Performance:	C411	Pass	

*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.

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
GacoOnePass F1850R	4" (10.2 cm)	5	350

LARGE SCALE FIRE TESTING

Meets or exceeds IBC requirements for exterior walls in type I, II, III, IV and V construction (all construction types applicable to residential, commercial and industrial construction); includes NFPA 285 and NFPA 259 testing with Intertek Listings (GWL/FIP 30-02, GWL/FIP 30-01).

TEST	PERFORMANCE	LOCATION	FOAM THICKNESS / COATING
AC377	Ignition Barrier	Vertical surfaces Horizontal or sloped surfaces	Up to 8.0" (20.3 cm) / No Coating Required Up to 10.0" (25.4 cm) / No Coating Required
NFPA 286	Thermal Barrier	Vertical surfaces Horizontal or sloped surfaces	Up to 7.5" (19.05 cm) / DC315 - 18 mil wet Up to 9.5" (24.13 cm) / DC315 - 18 mil wet

TYPICAL LIQUID CHEMICAL PROPERTIES

"A" Component contains polymeric isocyanate. "B" Component contains polyols, 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 ± 50 796 ± 50	cps
Lbs/gal and S.G. – "A" Component Lbs/gal and S.G. – "B" Component	77°F (25°C)	D1638	10.2 / 1.22 9.94 / 1.19	lbs/gal and S.G.
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: 12 months "B" Component: 4 months	Months

APPLICATION

To ensure optimum performance, a minimum pass thickness of 3/4" (1.9 cm) is recommended with the maximum not to exceed 4" (10.2 cm) per pass. 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		
GacoOnePass F1850R	30°F to 120°F (-1.1°C to 48.9°C)		
EQUIPMENT SETTINGS	VALUE	PRODUCT CHARACTERISTICS	VALUE
Pre-Heat: Iso (A)	105°F - 135°F (41°C - 58°C)	Cream Time	0.5 - 1.5 sec
Pre-Heat: Poly (B)	105°F - 135°F (41°C - 58°C)	Rise Time	3 - 6 sec
Hose Heat	105°F - 135°F (41°C - 58°C)	Tack Free Time	4 - 8 sec
Recommended Spray Pressure	1,200 - 1,400 psi (dynamic)	Cure Time	24 hours

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