

# Gaco WallFoam

SPRAY POLYURETHANE FOAM INSULATION

ENERGY-EFFICIENT.

STRONG.

HEALTHY.

GREEN.

QUIET.

**SMART**  
FROM THE START.

GACO WALLFOAM  
**SYSTEM 183M**  
TWO POUND CLOSED CELL FOAM

## CONTRACTOR BENEFITS

**SPRAYABILITY.** Superior formulation utilizing Transcend™ technology provides a consistent, user friendly foam with predictable yields.

**LESS VISCOUS FORMULATION.** Reduces wear and tear on equipment with less clogging of guns.

**LOWER ODOR FORMULA.** Reduces odor in application, improving work environment.

**WINTER AND SUMMER FORMULATIONS.** Allows you to expand your spray window in colder temperatures.

**LOWER SPRAY TEMPERATURE.** Easier on equipment and more comfortable to apply.

## OWNER/SPECIFIER BENEFITS

**ENERGY-EFFICIENT.** Seamless air barrier reduces uncontrolled air leakage, lowering energy costs for building owner and homeowner.

**STRONG.** Improves overall structural strength of wall and roof systems.

**HEALTHY.** Reduces condensation, moisture and mold, improving occupant comfort, health and safety.

**GREEN.** Higher aged R-values than conventional insulation. Reduces energy consumption, and contains no ozone-depleting chemicals. Earn up to 20 LEED credits.

**QUIET.** Provides a quieter home with improved acoustical properties.



Since 1955, Gaco Western has been manufacturing exceptional waterproofing and insulating products. This family owned company was built on three fundamental principles: superior products; sold by experts; at competitive prices. Today, Gaco Western coatings and spray foam insulation cover millions of square feet of commercial and residential buildings around the world, earning a reputation and trust in the construction industry as a producer of top-quality waterproof coatings, sealers, primers and insulation products.

Since 1955  
**GACO WESTERN**

# PRODUCT DATA – Gaco WallFoam System 183M

Gaco Western WallFoam 183M is an HFC blown (zero ozone-depleting) liquid spray system that cures to a medium-density rigid polyurethane insulation material. Gaco WallFoam 183M contains polyols derived from naturally renewable oils, post-consumer recycled plastics, and pre-consumer recycled materials. Gaco WallFoam 183M does not contain CFC's, HCFC's or other gases harmful to the environment. This system can be sprayed on clean, dry substrates down to 35°F (2°C). Gaco WallFoam 183M is a class I fire rated foam that meets the requirements of ICC-ES AC377 Acceptance Criteria for Foam Plastic Insulation. **Gaco WallFoam183M meets the requirements of AC377 Appendix X for use in attic and crawl spaces.**

TECHNICAL INFORMATION		To ensure optimum performance, a minimum pass thickness of 3/4" (1.9 cm) is recommended with the maximum not to exceed 2" (5.1 cm) per pass. For typical equipment settings, consult Gaco Western's GacoFoam Spray Guide.		
PROPERTY	TEST TEMPERATURE	ASTM TEST	UNIT	VALUE
Nominal Density (Sprayed In Place):	77°F (25°C)	D-1622-03	lbs/ft <sup>3</sup>	1.8 - 2.2
R-Value (Initial)	75°F (23.9°C)		R at 1"	6.7
R-Value (Aged) *See Note Below	75°F (23.9°C) *See Note Below	C-518	R at 1"	6.3
Compressive Strength (Parallel to Rise):	77°F (25°C)	D-1621-04a	psi	32
Tensile Strength:	77°F (25°C)	D-1623	psi	64
Water Absorption:	77°F (25°C)		%	0.45
Water Vapor Transmission:	77°F (25°C)	E-96-05	perm-in	1.12
Dimensional Stability (7 Days):	158°F (70°C) / 95% RH	D-2126-99	% Dimen. change	4.7
Recommended Service Temperature Range:	77°F (25°C)		°F / °C	-40°F to 200°F (-40°C to 93°C)
Closed Cell Content:	77°F (25°C)	D-6226-05	%	97.8
Air Permeance @ 75Pa (Infiltration/Exfiltration)	77°F (25°C)	E-283-04	L/s/m <sup>2</sup>	0.000 / 0.000 (@ 1" thickness)

\* NOTE: 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		ASTM E84-05 (Also known as ANSI 2.5, NFPA 255, UBC 8-1 (42-1) and UL 723)		
SYSTEM	THICKNESS	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX	
WallFoam 183M	4" (10.2 cm)	10	400	

ROOM CORNER FIRE TESTING		NFPA 286 (AC377 Appendix X)	
LOCATION	FOAM THICKNESS		
Walls	Up to 8" (20.3 cm)		
Ceiling	Up to 10" (25.4 cm)		

TYPICAL LIQUID CHEMICAL PROPERTIES		"A" Component contains polymeric isocyanate. "B" Component contains polyol, catalysts and blowing agents.		
PROPERTY	TEST TEMPERATURE	ASTM TEST	UNIT	VALUE
Viscosity – "A" Component:	77°F (25°C)	D-2196-68	cps	180 ± 20
Viscosity – "B" Component:				750 ± 50
Specific Gravity – "A" Component:	77°F (25°C)	D-1638-70	S.G.	1.22
Specific Gravity – "B" Component:				1.20
Weight/Gallon – "A" Component:	77°F (25°C)		lbs/gal	10.2
Weight/Gallon – "B" Component:				10.0
Mixing Ratio – "A" & "B" Component	77°F (25°C)		By volume	1:1
Stability When Stored at 50°F to 70°F (10°C to 21°C)			Months	"A" Component: 1 year "B" Component: 6 months

EQUIPMENT SETTINGS		PRODUCT CHARACTERISTICS	
SETTING	VALUE	CHARACTERISTIC	VALUE
Pre-Heat: Iso (A)	110°F - 125°F (43.3°C - 51.7°C)	Cream Time	0 - 1 sec
Pre-Heat: Poly (B)	115°F - 130°F (46.1°C - 54.4°C)	Rise Time	3 - 5 sec
Hose Heat	115°F - 130°F (46.1°C - 54.4°C)	Tack Free Time	3 - 5 sec
Recommended Spray Pressure	800 - 1,000 psi (dynamic)	Cure Time	4 hours

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