

PRODUCT DATA – Gaco WallFoam System 183

Gaco Western WallFoam 183 is an HFC blown (zero-ozone depleting) liquid spray system that cures to a medium-density rigid polyurethane insulation material. Gaco WallFoam 183 contains material derived from naturally renewable resources and 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 40°F (4.4°C). Refer to Gaco Western General Instructions, SG-GacoFoam for spraying instructions. Gaco WallFoam 183 is a class I fire rated foam.

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 ³	1.8 - 2.0
R-Value (Initial/Aged): * See Note Below	75°F (23.9°C) * See Note Below	C-518	R at 1"	6.6 / 6.1
Compressive Strength (Parallel to Rise):	77°F (25°C)	D-1621-04a	psi	42.25
Tensile Strength:	77°F (25°C)	D-1623	psi	65.0
Water Absorption:	77°F (25°C)		%	0.62
Water Vapor Transmission:	77°F (25°C)	E-96-05	perm-in	1.44
Dimensional Stability (28 Days):	158°F (70°C) / 95% RH 176°F (80°C) / Ambient RH -4°F (-20°C) / Ambient RH	D-2126-99	% Vol change	3.0 -4.0 -2.5
Recommended Service Temperature Range:			°F / °C	-40°F to 200°F (-40°C to 93°C)
Closed Cell Content:	77°F (25°C)	D-2856C-94	%	97

* 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 183	4" (10.2 cm)	15	400

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: Viscosity – "B" Component:	77°F (25°C)	D-2196-68	cps	180 ± 20 550 ± 50
Specific Gravity – "A" Component: Specific Gravity – "B" Component:	77°F (25°C)	D-1638-70	S.G.	1.22 1.19
Weight/Gallon – "A" Component: Weight/Gallon – "B" Component:	77°F (25°C)		lbs/gal	10.2 9.9
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)	110°F - 125°F (43.3°C - 51.7°C)	Rise Time	3 - 4 sec
Hose Heat	110°F - 125°F (43.3°C - 51.7°C)	Tack Free Time	3 - 4 sec
Recommended Spray Pressure	800 - 1,000 psi (dynamic)	Cure Time	4 hours

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