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# GACO WESTERN

## Product Data Sheet:

**RoofFoam™ 273**  
(formerly PolyFoam 273)  
February 2007  
Supersedes 05/06



## GACO WESTERN ROOFFOAM™ SYSTEM 273

### DESCRIPTION:

Gaco Western RoofFoam 273 is an HFC blown (zero-ozone depleting) liquid spray system that cures to a medium-density rigid polyurethane insulation for roofing applications. RoofFoam 273 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 45°F (7°C). Refer to Gaco Western General Instructions, SG-GacoFoam for spraying instructions. Gaco RoofFoam 273 is a Class A fire rated foam.

### TECHNICAL INFORMATION:

RoofFoam 273 is available in three standard reactivities for application in a wide range of temperatures. To ensure optimum performance, a minimum pass thickness of 3/4" (1.90 cm) is recommended with the maximum not to exceed 1.5" (4 cm) per pass. It is recommended that the resin side pre-heater be set 10 - 15°F warmer than the Isocyanate side to equalize component viscosities. For typical equipment settings, consult Gaco Western's GacoFoam Spray Guide.

Property	Test Temp.	ASTM Test	Unit	Value
Nominal Density: Sprayed-in-Place	77°F (25°C)	D-1622-93	lbs/ft <sup>3</sup>	2.5 – 3.0
R Value:		C-518	R	7.1
Compressive Strength: Parallel to Rise	77°F (25°C)	D-1621-94	psi	50.1
Tensile Strength	77°F (25°C)	D-1623-78	psi	54
Compressive Strength: Perpendicular to Rise	77°F (25°C)	C-273-94	psi	30.0
Water Vapor Transmission	77°F (25°C)	E-96-95	perm-in	1.8
Dimensional Stability: (28 Day)	158°F (70°C) 97% RH -20.2°F (-29°C) Amb. RH	D-2126-94	% Vol change	+5.98 0.4

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Property	Test Temp	ASTM Test	Unit	Value
Recommended Service Temperature Range			°F	-40°F (-4.4°C) to 200°F (93°C)
Closed Cell Content	77°F (25°C)	D-2856C-94	%	94.3

**Fire Testing (UL-790 / ASTM E-108):** : Gaco RoofFoam 273 has passed classification burn testing at Underwriters Laboratories and received a class A rating at a 2" incline.

**TYPICAL LIQUID CHEMICAL PROPERTIES**

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

Property	Test Temp.	ASTM Test	Unit	Value
Viscosity: "A" Component "B" Component	77°F (25°C)	D-2196-68	cps	180 ± 20 700 ± 50
Specific Gravity: "A" Component "B" Component	77°F (25°C)	D-1638-70		1.23 1.15
Weight/Gallon: "A" Component "B" Component	77°F (25°C)		lbs/gal	10.2 9.6
Mixing Ratio: "A" & "B" Component	77°F (25°C)		by volume	50
Stability: When stored at 50°F to 70°F (10° - 21°C) "A" & "B" Component			months	A: 1 year B: 3 months

**NOTE:** All hot work, i.e. welding, torches and open flame work must be completed prior to installation of the polyurethane foam insulation. Smoking in the same area while the spray polyurethane foam insulation is being applied shall be strictly prohibited.

Recommendations and safety considerations for application are outlined in Gaco Western's Spray Guide SG-GacoFoam. The aforementioned information on this product is to be used as a guide and is subject to change without notice. These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods and use of our products are beyond our control. Any obligation of the seller or manufacturer shall have no force or effect unless it is in writing and signed by officers of the manufacturer.

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