

Gaco WallFoam

SPRAY POLYURETHANE FOAM INSULATION
by Gaco Western®

ENERGY-EFFICIENT.

STRONG.

HEALTHY.

RESPONSIBLE.

QUIET.

SMART
FROM THE START.

Gaco ToughFoam
HIGH DENSITY 10 LB SPRAY FOAM

CONTRACTOR / APPLICATOR BENEFITS

HIGH DENSITY SPRAY FOAM. Use in a variety of applications including poultry houses, livestock enclosures and uninhabited storage buildings.

EXPANDED SCOPE OF WORK. Increase sales by adding agricultural and metal building applications to your services.

VERSATILE. Ideal for use on all types of substrates, either alone or as a system with other Gaco closed cell foams. Your options are unlimited.

OPTIONAL COLORS. Available in tan, gray and black to meet the unique needs of various industries.

OWNER BENEFITS

ENERGY EFFICIENT. Seamless air barrier reduces uncontrolled air leakage and lowers energy costs.

HEALTHY. Reduces condensation, moisture and mold to help prevent disease; improves living environment and helps increase livestock and poultry productivity.

STRONGER. Resists damage from livestock and poultry and offers durability for the everyday industrial and agricultural environment.

RESISTANT. Battles darkling beetle and other insect infiltration.



GacoToughFoam High Density 10 lb. Spray Foam Product Data Sheet | September 2015

GacoToughFoam is a water-blown, spray applied ten pound closed cell foam that cures to a high-density rigid cellular polyurethane insulation material. It does not contain CFCs, HCFCs or other gases harmful to the environment. GacoToughFoam is designed specifically for use in a variety of applications including poultry houses, livestock enclosures and uninhabited storage buildings. It may be used alone or as a system with other Gaco closed cell spray foam products.

TECHNICAL INFORMATION: To ensure optimum performance, a minimum pass thickness of 1/4" is recommended with the maximum not to exceed 1/2" per pass. It is recommended that the Poly (resin) side pre-heater be set 10°F to 15°F warmer than the Isocyanate side to equalize component viscosities. Maximum spray equipment temperature setting is 150°F (66°C).

GacoToughFoam can be sprayed on clean dry substrates down to 40°F (4.5°C), but must not be applied if the temperature during application is less than 5 degrees above the dew point.

PHYSICAL PROPERTIES

PROPERTY	TEST TEMPERATURE	ASTM TEST	VALUE	UNIT
Nominal Density: Sprayed-in-Place	77°F (25°C)	D1622	9.0-11.0	lbs/ft ³
R Value (initial):	75°F* (23.9°C)	C518	4.8 at 1"	h · ft ² · °F/Btu

*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

GacoToughFoam 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, 2015).

SYSTEM	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
GacoToughFoam F10000	20	105

TYPICAL LIQUID CHEMICAL PROPERTIES

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

PROPERTY	TEST TEMPERATURE	ASTM TEST	VALUE	UNIT
Viscosity – "A" Component: Viscosity – "B" Component:	77°F (25°C)	D2196	180 ± 20 1450 ± 500	cps
Lbs/gal and S.G. – "A" Component: Lbs/gal and S.G. – "B" Component:	77°F (25°C)		10.2 / 1.23 9.4 / 1.13	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: 3 months	Months

EQUIPMENT SETTINGS

SETTING	VALUE
Pre-Heat: Iso (A)	110°F - 150°F (43°C - 66°C)
Pre-Heat: Poly (B)*	110°F - 150°F (43°C - 66°C)
Hose Heat	110°F - 150°F (43°C - 66°C)
Recommended Spray Pressure	1,200 - 1,400 psi (dynamic)

*It is recommended that the Poly (resin) side pre-heater be set 10°F to 15°F warmer than the Isocyanate side to equalize component viscosities.

PRODUCT CHARACTERISTICS

CHARACTERISTIC	VALUE
Cream Time	0 - 1 sec
Rise Time	3 - 4 sec
Tack Free Time	7 sec
Cure Time	2 hours