

# Gaco Western

S I N C E 1 9 5 5

## Product Data Sheet:

GacoToughFoam F10000

March 2019

Supersedes 04/17

### GacoToughFoam HIGH DENSITY 10 LB SPRAY FOAM

#### DESCRIPTION

GacoToughFoam F10000 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.

#### RECOMMENDED USES

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.

#### PHYSICAL PROPERTIES

PROPERTY	TEST TEMP	ASTM TEST	VALUE	UNIT
Nominal Density Sprayed-in-Place	77 °F (25 °C)	D1622	9.0-11.0	lb/ft <sup>3</sup>
R Value (initial)	---	C518	4.8 @ 1" (25.4 mm)	h·ft <sup>2</sup> ·°F/Btu

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

PROPERTY	TEST TEMPERATURE	ASTM TEST	VALUE	UNIT
Viscosity – "A" Component:	77 °F (25 °C)	D2196	200 ± 50	cps
Viscosity – "B" Component:			1450 ± 50	cps
Specific Gravity – "A" Component:	77 °F (25 °C)	D1638	1.23	S.G.
Specific Gravity – "B" Component:			1.13	S.G.
Weight/Gallon – "A" Component:	77 °F (25 °C)	---	10.34	lb/gal
Weight/Gallon – "B" Component:			9.4	lb/gal
Mixing Ratio – "A" & "B" Component	---	---	1:1	by volume
Stability When Stored at 50 °F to 100 °F (10 °C to 38 °C)	---	---	A Component – 6 F10000 B Component – 4 F10000-N/C B Component – 6	months months months

#### APPLICATION

To ensure optimum performance, a minimum pass thickness of ¼" (6.4 mm) is recommended with the maximum not to exceed ½" (12.7 mm) per pass. It is recommended that the Poly (resin) side pre-heater be set 10 °F to 15 °F (-12 °C to -9 °C) 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 °C) but must not be applied if the temperature during application is less than 5 degrees above the dew point.



EQUIPMENT SETTINGS		REACTIVITY TIME	
Pre-Heaters - Iso (A):	110 °F to 150 °F (43 °C to 66 °C)	Cream Time:	1 second
Pre-Heaters - Poly (B)*:	110 °F to 150 °F (43 °C to 66 °C)	Rise Time:	3 - 4 seconds
*It is recommended that the Poly (resin) side pre-heater be set 10 °F to 15 °F (-12 °C to -9 °C) warmer than the Isocyanate side to equalize component viscosities.		Tack Free Time:	7 seconds
Hose Heat:	110 °F to 150 °F (43 °C to 66 °C)	Cure Time:	2 hours
Recommended Spray Pressure:	1,200 to 1,400 psi (dynamic)		

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For specific Safety and Health information please refer to Safety Data Sheet.

