

# Gaco Wall Foam

SPRAY POLYURETHANE FOAM INSULATION  
by Gaco Western®

ENERGY-EFFICIENT.

STRONG.

HEALTHY.

RESPONSIBLE.

QUIET.

**SMART**  
FROM THE START.

**Gaco 052N**  
OPEN CELL FOAM

## CONTRACTOR / APPLICATOR BENEFITS

**SPRAYABILITY.** Easy to spray with a more controlled rise, resulting in less waste.

**PREDICTABILITY.** Provides consistent and predictable yields.

**EASE OF USE.** Constant mixing is not required.

**R-VALUE.** One of the highest Aged R-Values available in the industry today.

## OWNER / SPECIFIER BENEFITS

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

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

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

**QUIET.** Acts as a sound barrier to help block airborne noise and absorbs sound. Proven to decrease exterior noise by up to 20 decibels.



# Gaco 052N Open Cell Foam Product Data Sheet | September 2016

Gaco 052N is a water-blown, spray-applied system that cures to a semi-rigid low-density foam. The cured product is dimensionally stable in all weather conditions and its insulating properties do not significantly diminish over time. Gaco 052N is safe for the environment, containing no CFC's, HCFC's, HFC's, formaldehyde or ozone depleting chemicals. Gaco 052N is a Class I fire rated foam and meets the requirements of ICC-ES AC377 Acceptance Criteria for Foam Plastic Insulation.

**TECHNICAL INFORMATION:** Gaco 052N forms a completely sealed air barrier in wall cavities and can be used to fill 2" x 6" stud wall construction in a single application. Its performance is superior to commonly used fiberglass batting or loose fill insulation. It adheres well to most building materials and will provide a continuous barrier against air infiltration for the life of the building. Gaco 052N is semi-rigid in nature but is flexible enough to withstand normal expansion and contraction of building components. Yields up to 15,000 board feet per set (1,020 Lbs.) are possible under optimum conditions.

## PHYSICAL PROPERTIES

PROPERTY	TEST TEMPERATURE	ASTM TEST	VALUE	UNIT
Core Density (Sprayed In Place):	77°F (25°C)	D1622	0.50 ± 10%	lbs/ft <sup>3</sup>
R-Value* (Aged): *See Note Below	75°F* (23.9°C)	C518	R 4.2 at 1", R 16 at 4"	h · ft <sup>2</sup> · °F/Btu
Tensile Strength:	77°F (25°C)	D1623	4.4	psi
Open Cell Content:	77°F (25°C)	D2856	99.4%	%
Water Vapor Permeability:	77°F (25°C)	E96	13.0	perm-in
Fungus Resistance:		G21	0 (No Growth)	0-4 Growth
Dimensional Stability:	158°F (70°C) / 95% RH	D2126	+2.7%	% Vol change
Air Permeance @ 75 Pa (Infiltration/Exfiltration)	77°F (25°C)	E283	0.009 at 3.5", 0.007 at 5.5"	L/s/m <sup>2</sup>

\*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

Class I when tested per ASTM E84 (Also known as ANSI 2.5, NFPA 255, UBC 8-1 (42-1) and UL 723)

SYSTEM	THICKNESS	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX
Gaco 052N	6" (15.2 cm)	25	250

## LARGE SCALE FIRE TESTING

TEST	PERFORMANCE	LOCATION	FOAM THICKNESS / COATING
AC377, Appendix X	Ignition Barrier	Attic floors, walls and roof Crawlspace walls and ceiling	Up to 11.25" (28.6 cm) / DC315 - 4 mils wet
AC377, Appendix X	Ignition Barrier	Attic and crawlspaces Vertical surfaces Horizontal or sloped surfaces	Up to 11.5" (29.2 cm) / TPR <sub>2</sub> Fire Shell - 14 mils wet
NFPA 286	Thermal Barrier	Any	Up to 11.25" (28.6 cm) / DC315 - 20 mils wet
NFPA 286	Thermal Barrier	Vertical surfaces Horizontal or sloped surfaces	Up to 5.25" (13.3 cm) / TPR <sub>2</sub> Fire Shell - 14 mils wet Up to 9.25" (23.5 cm) / TPR <sub>2</sub> Fire Shell - 14 mils wet

Gaco 052N meets the IBC Chapter 26 requirements for use in Type I, II, III, IV construction types through evaluation to NFPA 285 (Project 10318C). This evaluation is limited to installation in the cells of concrete masonry units and within light-gauge metal framing sheathed with 5/8 inch Type X gypsum.

## TYPICAL LIQUID CHEMICAL PROPERTIES

"A" Side contains polymeric isocyanate. "B" Side contains polyols, catalysts, fire retardants and blowing agents.

PROPERTY	TEST TEMPERATURE	ASTM TEST	VALUE	UNIT
Viscosity – "A" Component:	77°F (25°C)	D2196	200 ± 50	cps
Viscosity – "B" Component:			300 ± 50	
Lbs/gal and S.G. – "A" Component:	77°F (25°C)		10.3 / 1.23	lbs/gal and S.G.
Lbs/gal and S.G. – "B" Component:			9.5 / 1.15	
Mixing Ratio – "A" & "B" Component	77°F (25°C)		1:1	By volume
Stability When Stored at 50°F to 100°F (10°C to 38°C)	77°F (25°C)		"A" Component: 12 months "B" Component: 9 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)

## PRODUCT CHARACTERISTICS

CHARACTERISTIC	VALUE
Cream Time	1 sec
Rise Time	3 - 4 sec
Tack Free Time	5 sec
Cure Time	4 hours

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