GacoONEPass™ CLOSED CELL FOAM | LOW GWP

Because Sustainability Matters

Part of the Firestone Building Products family of brands.

GacoWallFoam™

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877 699 4226

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A new generation of GacoOnePass – the same excellent performance with enhanced sustainability.

Because Sustainability Matters

GacoOnePass Low GWP closed cell foam is manufactured with zero ozone-depleting chemicals. It contains polyols derived from naturally renewable oils, post-consumer recycled plastics, and pre-consumer recycled materials.

GacoOnePass Low GWP also contains a new blowing agent that can contribute to decreased environmental risk due to its low Global Warming Potential (GWP) and reduced carbon footprint.

GacoOnePass Low GWP achieves zero ozone-depletion and low GWP characteristics all in one.

What is Global Warming Potential (GWP)?

Greenhouse gases warm the Earth by absorbing energy and slowing the rate at which the energy escapes to space; they act like a blanket insulating the Earth. The Global Warming Potential (GWP) was developed to allow comparisons of the global warming impacts of different gases. The larger the GWP, the more that a given gas warms the Earth compared to carbon dioxide over that time period.

Due to greater awareness and/or regulations, GWP is an important consideration for some building owners, architects specifying a project, and eventual occupants who may have a commitment to contributing to a smaller carbon footprint.

- Low Global Warming Potential Product
- Reduced Carbon Footprint
- Exceptional Sprayability
- 4+" Passes

The easy to use spray foam with the easy-on-the-eye finish.

GacoOnePass has become well-known for its exceptional sprayability, excellent adhesion and smooth finish – the unique formulation provides consistent, forgiving, user-friendly foam with predictable yields and less gun clogging. The low viscosity reduces wear and tear on equipment and the ability to install quickly in 4+" passes saves time and reduces labor costs. Plus, the low odor of GacoOnePass contributes to a more comfortable work environment. All of these recognized benefits of GacoOnePass are present in GacoOnePass Low GWP.

A valuable solution for home-owners and specifiers alike.

Energy Efficiency is Job One

GacoOnePass Low GWP has higher R-Values than conventional insulation and a seamless air barrier reduces uncontrolled air leakage resulting in lower energy costs.

Design Flexibility for a Variety of Applications

GacoOnePass Low GWP adheres to the substrate, allowing for easy monolithic installation for greater structural strength and stability, and enhances resistance to water damage. It expands to fill even irregularly shaped and hard to reach areas.

Lower Construction Costs/Value Engineering

Achieve insulation, air barrier, vapor retarder and thermal break all in one for reduced material costs; energy efficiency results in smaller HVAC system requirements.

Long Term Value

Customers today are concerned about their building's integrity - spray foam helps a building withstand the tests of the elements and time.

Recommended uses include:

- Walls
- Ceilings
- Floors
- Attics
- Crawlspaces
- Foundations
- Concrete Slabs
- Residential Ducts
- Plenums
- Cold Storage
- Freezers
- Piping
- Storage Tanks
- Flotation
- Industrial Applications

GacoOnePass Low GWP F1880 Closed Cell Spray Foam Insulation | January 2018

GacoOnePass Low GWP F1880 is a two component Low GWP (Global Warming Potential) liquid spray system that cures to a medium-density rigid cellular polyurethane insulation material. GacoOnePass Low GWP F1880 contains polyols derived from naturally renewable oils, post-consumer recycled plastics, and pre-consumer recycled materials.

GacoOnePass Low GWP F1880 is a Class A (Class 1) fire rated foam that meets or exceeds the requirements of ICC-ES AC377 Acceptance Criteria for Foam Plastic Insulation. This closed cell foam is designed to provide: excellent thermal performance; air impermeable insulation; and an integral part of an air barrier assembly.

DESCRIPTION	
RECOMMENDED USES	GacoOnePass Low GWP F1880 will provide excellent performance in a wide range of residential, commercial and industrial applications where in service temperatures are between -40°F and 200°F including: Walls, Ceilings, Floors, Attics, Crawlspaces, Foundations, Concrete Slabs, Residential Ducts, Plenums, Cold Storage, Freezers, Piping, Storage Tanks, Flotation and Industrial Applications. *GacoOnePass Low GWP F1880 is FEMA Class 5, the highest rating for flood-resistant materials.*

PHYSICAL PROPERTIES (Preliminary)

The following physical property tests were conducted by independent certified laboratories with traceable samples in accordance ICC-ES AC377 and ASTM C1029 for Type II foam.

PROPERTY*	ASTM TEST	VALUE	UNIT
Core Density:	D1622	2.2 ± 10%	lbs/ft^3
Initial R-Value:**	C518 C518	R 7.1 at 1" *** R 30 at 4" ***	h-ft^2-°F/Btu h-ft^2-°F/Btu
Compressive Strength (Parallel to Rise):	D1621	30.7	psi
Tensile Strength	D1623	65	psi
Water Vapor Permeance	E96 - Method A	1.7	perm-in
Dimensional Stability At 158°F (70°C) and 97% RH:	D2126	L=-2.6%, W=-3.0%, T=5.4%	% linear change
Closed Cell Content:	D2856	>90	%
Air Permeance @ 75Pa (Infiltration/Exfiltration):	E2178	0.001 at 1"	L/s-M^2
Water Absorption (96 hours, 2" head, 70-74°F (21-23°C):	D2842	0.29	% by volume
Water Absorption	C1763	1.63	% by volume
Fungi Resistance	C1338	Pass	no growth
Hot Surface Performance	C411	Pass	No flaming, charring or smoldering
Potential Heat	NFPA 259	11,141	btu/lb

* These items are provided for general information.

** 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.

*** To determine R values for thickness not listed: a. between 1 inch and 3.5 inch can be determined through linear interpolation; or, b. greater than 3.5 inches can be calculated based on R X/inch (Pending)

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SURFACE BURNING CHARACTERISTICS

GacoOnePass Low GWP F1880 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). GacoOnePass Low GWP was also tested in accordance with ASTM E2768 for an extended time of 30 minutes and met the requirements of NFPA 13 Section 8.15.1.2.10.

SYSTEM	FLAME SPREAD INDEX	SMOKE DEVELOPED INDEX		
GacoOnePass Low GWP F1880[1]	0	200		

[1] Sample tested at 4" (10.2 cm) thickness. May be installed at unlimited thicknesses when covered with 1/2"gypsum board.

LARGE SCALE FIRE TESTING

TEST	PERFORMANCE	LOCATION	FOAM THICKNESS / COATING
AC377	Ignition Barrier	Vertical surfaces	Up to 8.0" (20.3 cm) / No Coating Required
		Horizontal or sloped surfaces	Up to 10.0" (25.4 cm) / No Coating Required
NFPA 286	Thermal Barrier	Vertical surfaces	Up to 7.5" (19.1 cm) / DC315 - 18 mil wft
		Horizontal or sloped surfaces	Up to 9.5" (24.1 cm) / DC315 - 18 mil wft

GacoOnePass Low GWP F1880 meets or exceeds the IBC requirements for exterior wall in Type I, II, III, IV and V construction through testing for vertical and lateral fire propagation to NFPA 285 and NFPA 259 and evaluation and Intertek listings (GWL/FIP 30-02, GWL/FIP 30-01).

VAPOR RETARDER

GacoOnePass Low GWP F1880 meets the requirement of one perm or less for a Class II vapor retarder per the International Code Council and ASHRAE when installed at 1.7 inches in depth. Water vapor permeability at various thicknesses is provided below:

THICKNESS	WVP	THICKNESS	WVP	THICKNESS	WVP
1.7"	1.00 perms	2"	0.85 perms	4"	0.43 perms
1.0"	1.70 perms	3"	0.57 perms		

AIR BARRIER PERFORMANCE

GacoOnePass Low GWP F1880 is an air impermeable insulation and an air barrier material based on testing in accordance with ASTM E2178 at one-inch depth or more.

LEED INFORMATION

GacoOnePass Low GWP F1880 has a minimum of 6.5% recycled content based on weight, including 1.2% pre-consumer material and 5.3% post-consumer material. It contains 5.7% rapidly renewable content. GacoOnePass Low GWP F1880 raw materials are blended in Waukesha, WI. Actual polyurethane foam end product production is done on-site by the applicator.

TYPICAL LIQUID CHEMICAL PROPERTIES

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

PROPERTY	TEST TEMPERATURE	ASTM TEST	VALUE	UNIT
Viscosity – "A" Component: Viscosity – "B" Component:	77°F (25°C)	D2196	200 ± 50 1050 ± 100	cps cps
Specific Gravity – "A" Component: Specific Gravity – "B" Component:	77°F (25°C)	D1638	1.24 1.23	S.G. S.G.
Weight/Gallon – "A" Component: Weight/Gallon – "B" Component:	77°F (25°C)		10.3 10.3	lbs/gal lbs/gal
Mixing Ratio – "A" & "B" Component:			1:1	By volume
Stability When Stored at 50°F to 77°F (10°C to 25°C):			A Component – 6 B Component – 5	Months Months

APPLICATION

To ensure optimum performance, a minimum pass thickness of 3/4" (1.9 cm) is recommended with the maximum not to exceed 5 1/2" (14 cm) per pass. To obtain optimum results substrate temperature should be within the ranges as stated below. All substrates must be dry at the time of application. Do not apply to wood surfaces with a moisture content of above 18%.

MATERIAL	SUBSTRATE TEMPERATURE
GacoOnePass Low GWP F1880R	40°F to 120°F (4°C to 49°C)

EQUIPMENT SETTINGS	
Pre-Heaters – Iso (A):	105°F to 135°F (41°C to 57°C)
Pre-Heaters – Poly (B):	105°F to 135°F (41°C to 57°C)
Hose Heat:	105°F to 135°F (41°C to 57°C)
Recommended Spray Pressure:	1,000 to 1,200 psi (dynamic)

REACTIVITY TIME	
Cream Time:	1 second
Rise Time:	3-6 seconds
Tack Free Time:	4-8 seconds
Cure Time:	24 hours

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

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MKWF5017 0118