

GacoProFil[®] SYSTEM

INNOVATIVE NEW CONSTRUCTION APPLICATION FOR OPEN CELL FOAM

PATENTED PROCESS

CONSISTENT QUALITY.

ENERGY SAVINGS & COMFORT.

HIGH BIO-RENEWABLE CONTENT.

BUILDER BENEFITS

SAVES TIME. Quickly and easily installed in a fraction of the time needed for other spray foam products; speeds up construction cycle by allowing other trades to be on the job sooner.

CONSISTENT QUALITY. First complete spray foam system to offer a consistent cavity fill to help ensure quality installation on every project.

SEAMLESS AIR BARRIER. Comprised of a tough, true polyurethane based spray foam installed behind a membrane to provide both high R-value insulation and seamless air barrier.

SUSTAINABLE. Contains high bio-renewable content.

HOMEOWNER / BUILDING-OWNER BENEFITS

ENERGY EFFICIENT. High R-value and a seamless air barrier reduce air leakage and lower energy costs.

LONG TERM VALUE. Will not shrink, settle or sag; provides a seamless insulation barrier year after year.

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

QUIET. Acts as a sound barrier to help block airborne noise and absorb sound.



GacoProFill Polyurethane Foam Insulation Data Sheet | September 2016

GacoProFill FR6500R is a two-component polyurethane foam that cures to a low-density cellular insulation material. It is recommended for use in a variety of empty cavities in retrofit applications in residential and commercial buildings and as part of the GacoProFill SYSTEM for use in new construction.

PHYSICAL PROPERTIES

PROPERTY	ASTM TEST	VALUE	UNIT
Core Density	D1622	0.55 ± 10%	lbs/ft ³
Aged R-Value*	C518	4.04 at 1" 13.8 at 3.5" (3.93/in at > 3.5")	h · ft ² · °F/Btu
Tensile Strength	ASTM D1623	3.1	psi
Water Vapor Transmission	ASTM E96 - Method A	14	perm-in
Dimensional Stability (7 Days)	ASTM D2126	6%	Max linear change
Open Cell Content	ASTM D2856	92	%
Air Permeance @ 75 Pa	ASTM E283	0.012 at 3.5"	L/s · M ²
Bio-Based Content	ASTM D6866	8.9	%
Fungi Resistance	ASTM C1338	Pass	No growth
VOC Emissions	UL GREENGUARD UL GREENGUARD Gold	Pass Pass	No harmful effects No harmful effects
Critical Radiant Heat Flux	NFPA 970	Pass	>0.12 W/cm ²
Hot Surface Performance of High Temperature Thermal Insulation	ASTM C411	Pass	Did not flame, glow, smolder or smoke
Sound Transmission Class	ASTM E90	Wall 1 – STC 42 Wall 2 – STC 46 Wall 3 – STC 48 Wall 4 – STC 54	
Noise Reduction Coefficient	ASTM C423	NRC 0.65	

*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 A (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
GacoProFill FR6500R	4.5" (11.4 cm)	25	400

TYPICAL LIQUID CHEMICAL PROPERTIES

"A" Component contains polymeric isocyanate. "B" Component contains polyols, 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 ± 50 100 ± 20	cps
Lbs/gal and S.G. – "A" Component: Lbs/gal and S.G. – "B" Component:	77°F (25°C)	D1638	10.3 / 1.23 9.77 / 1.17	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: 6 months	Months

EQUIPMENT SETTINGS*

SETTING	VALUE
Pre-Heat: Iso (A)	115°F - 145°F (46°C - 63°C)
Pre-Heat: Poly (B)	115°F - 145°F (46°C - 63°C)
Hose Heat	115°F - 145°F (46°C - 63°C)
Recommended Spray Pressure	1,000 - 1,200 psi (dynamic)

*At 70°F ambient temperature, recommended start settings are 115°F and 1,000 psi.

PRODUCT CHARACTERISTICS

CHARACTERISTIC	VALUE
Cream Time	3 sec
Tack Free Time	6-10 sec
Cure Time	4 hours