# Polyurethane Foam Insulation for existing, uninsulated wall cavities.

ENERGY-EFFICIENT. | STRONG. | HEALTHY. | RESPONSIBLE. | QUIET.

## THE IDEAL RETROFIT SOLUTION

## GacoProFill®

**POLYURETHANE FOAM INSULATION**
**THE IDEAL RETROFIT SOLUTION**

### CONTRACTOR / APPLICATOR BENEFITS

**EXPANDED SCOPE OF WORK.** Differentiate yourself and increase sales by adding retrofit applications to your services.

**LESS DOWNTIME.** With less seasonal restrictions, the re-insulation market offers significant growth potential throughout the year.

**NO SPECIAL EQUIPMENT.** Install using the same equipment you use for Gaco's other spray foam insulation products.

**EASY TO INSTALL.** Ideal for existing homes and buildings with uninsulated wall cavities; install from exterior or interior.

### 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.

# Polyurethane Foam Insulation for existing, uninsulated wall cavities.

## What is GacoProFill?

GacoProFill is a two-component open cell polyurethane foam designed specifically for injection into a variety of empty cavities in both residential and commercial applications. The two components leave the gun as a liquid and react inside the cavity to create foam.

GacoProFill provides your customers the same benefits as all Gaco spray foam insulation products – high R-value (3.93 per inch) and seamless air barrier help reduce energy costs by up to 40%; it eliminates drafts for increased comfort; and it creates a quieter home by blocking and absorbing airborne noise.

## Why is GacoProFill the Best Solution?

How GacoProFill is different is the key. While other injection foam insulations leave voids and deteriorate if not protected by an air barrier, GacoProFill is both insulation AND air barrier – and because it won't shrink, settle or sag, it will continue to provide seamless insulation, energy savings and comfort year after year.

It is also much easier to install than other injection foams. No special equipment is required; install GacoProFill using the same equipment you use for Gaco's other spray foam insulation products. Just add a Pour Cap and Tubing. And because it contains no formaldehyde and is formulated with a highly reactive catalyst, there is very low odor during installation.

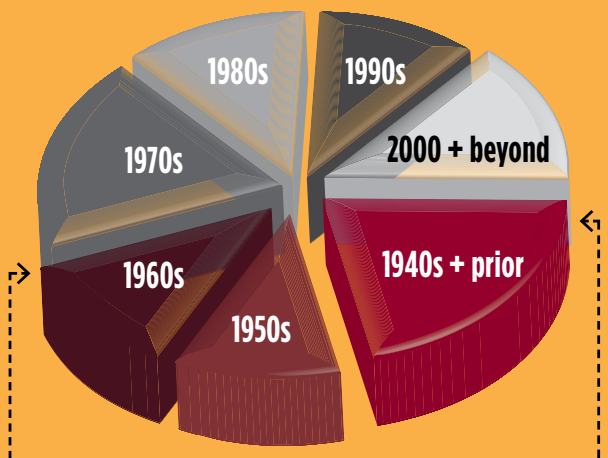
GacoProFill installs more quickly than conventional insulation products – approximately 8 seconds per 8' wall cavity. Plus there is less mess, allowing you to get off the job site in less time, and on to the next job.

## What is the Market Potential?

- Total U.S. Homes Today: Over 130 million
- 44% were built before 1970 (approximately 57 million); these homes are more likely to have no existing insulation in the walls.
- GacoProFill may be installed from either the interior or the exterior of the home, depending on the exterior cladding type.

*Source: U.S. Census Bureau, 2010-2012 American Community Survey*

### US Housing Stock by Year Built




**44% of US homes** (approximately 57 million)

### Percentage of homes in select cities that were built PRIOR TO 1960.

| | | | |
|---|---|---|---|
| New York | 66% | Chicago | 67% |
| Seattle | 50% | New Orleans | 54% |
| Los Angeles | 49% | St. Louis | 77% |

# GacoWallFoam
SPRAY POLYURETHANE FOAM INSULATION

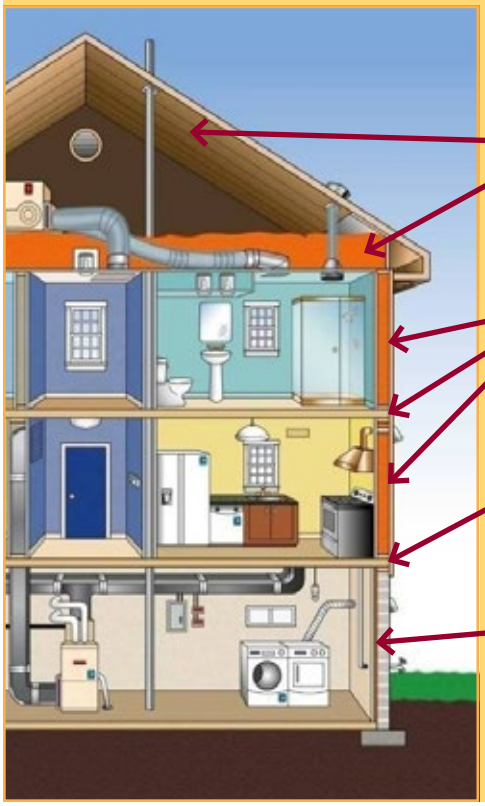
## The Whole-House Solution
Use GacoProFill in conjunction with other Gaco spray foam products to provide a whole-house insulation and air-sealing solution for improved energy efficiency.


## Sales Tools
Brochures and postcards available to help you promote GacoProFill. Customized artwork with your logo and contact information available at no charge.

*Homeowner postcard*


*Homeowner brochure*

Gaco Western products seal & insulate the entire building shell.



GacoFireStop2
Gaco 052N
Gaco 183M

GacoProFill

GacoFireStop2
Gaco 052N
Gaco 183M

Gaco 183M

**Contact us today for more information about GacoProFill.**

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gaco.com

Gaco WallFoam
SPRAY POLYURETHANE FOAM INSULATION

# GacoProFill Polyurethane Foam Insulation Data Sheet | September 2015

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"<br>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<br>UL GREENGUARD Gold | Pass<br>Pass | No harmful effects<br>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 3 – STC 48<br>Wall 2 – STC 46 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:<br>Viscosity – "B" Component: | 77°F (25°C) | D2196 | 200 ± 50<br>100 ± 20 | cps |
| Lbs/gal and S.G. – "A" Component:<br>Lbs/gal and S.G. – "B" Component: | 77°F (25°C) | D1638 | 10.3 / 1.23<br>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<br>"B" Component: 6 months | Months |

## EQUIPMENT SETTINGS*

| SETTING | VALUE |
|---|---|
| Pre-Heat: Iso (A) | 105°F - 135°F (41°C - 57°C) |
| Pre-Heat: Poly (B) | 105°F - 135°F (41°C - 57°C)) |
| Hose Heat | 105°F - 135°F (41°C - 57°C) |
| Recommended Spray Pressure | 800 - 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 | 2 - 4 sec |
| Tack Free Time | 8 - 12 sec |
| Cure Time | 4 hours |
| | |

Gaco Western
SINCE 1955

**Contact us today for more information about GacoProFill.**
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