

# Gaco FireStop<sup>®</sup> 2

OPEN CELL FOAM

The first single-application, open cell spray foam insulation of its kind that requires no additional ignition barrier *is now even better!*

**HIGHER YIELDS.  
BETTER PERFORMANCE.  
STANDARD ISO.  
SUSTAINABLE.**



# CONTRACTORS AND BUILDERS will appreciate everything GacoFireStop2 offers.



## CONTRACTORS

- Higher Yields, Better Product Performance
- Standard ISO Reduces Handling Costs
- No Additional Ignition Barrier Needed
- Single Step Installation Saves Time and Money
- Quick, Easy Code Approval – Reduced Legal Liability



## BUILDERS

- No Additional Ignition Barrier Needed
- Improve Air Seal and R-Value
- Exceeds New Building Codes
- Save Money on HVAC Systems
- Sustainable – High Bio-Renewable Content

### Save MORE time and money with GacoFireStop2.

GacoFireStop2 is the first single-application open cell spray foam insulation of its kind that requires no additional ignition barrier. Say goodbye to lengthy, expensive, hard-to-inspect 2-step installation processes.

With GacoFireStop2, just one application is all it takes – and because it's easy for code officials to inspect and pass, contractors will be on and off the job fast, with reduced legal liability.

### GacoFireStop2 – now even better!

This true half-pound foam provides higher yields for lower installed costs and improved sprayability and rise which saves time on the job. It also offers excellent adhesion and is easy to trim.

Because the fire retardant is now built into the product itself, GacoFireStop2 uses standard ISO, which greatly reduces your material handling costs.

Plus, GacoFireStop2 is sustainable – it contains high bio-renewable content.



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## Does the work of two, in one single step.

Other spray foam insulations require an ignition barrier coating, as a time consuming and costly second step, after spray foam insulation is installed in attics and crawl spaces. This involves a significant waiting period while the foam cures. Also, it is extremely difficult to measure and gauge the coverage of the additional ignition barrier coating.

With GacoFireStop2, the ignition barrier is part of the foam – it's built into the product itself. It can be left exposed in an attic or crawl space AND meet code requirements in just one single step.



## Tested, Certified + Easy to Inspect and Pass = Reduced Liability!

GacoFireStop2 is AC377 Appendix X Approved, and independent 3rd party testing certifies it meets and exceeds all new building codes for installation in attics and crawl spaces, with no additional ignition barrier required. Its orange color is easily recognizable and it can be left exposed without the need to provide a required thickness of intumescent coating over the top of the foam – so it's easy for Code Officials to inspect and pass.

We've even taken testing to a new level – GacoFireStop2 has been tested at conditions beyond what is expected in most normal installations. GacoFireStop2 can be installed up to 18" thick in walls, floors and ceilings, and it passed the Air Impermeability test at just 1", whereas most open-cell foams are tested at 3.5".

With GacoFireStop2, contractors can quickly move on to the next job without worrying about potential liability – and litigation – due to ignition barrier failure.



## Lasting comfort and value.

Homeowners and building-owners will appreciate Gaco's Air Seal Advantage: a single, solid, energy-saving barrier that doesn't shrink, settle or sag over time.

GacoFireStop2 eliminates drafts and improves indoor air quality, reduces noise transfer to create a quieter environment, and the high R-value provides energy efficiency which helps lower energy bills throughout the life of the home.



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## GacoFireStop2 Open Cell Foam Product Data Sheet

GacoFireStop2 is a water-blown spray-applied system that cures to a distinctive orange colored 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. It is safe for the environment, containing no CFC's, HCFC's, formaldehyde or ozone depleting chemicals. GacoFireStop2 is a Class 1 fire rated foam. **GacoFireStop2 meets the requirements of AC377 Appendix X for use in attic and crawl spaces without an additional ignition barrier.**

**TECHNICAL INFORMATION:** GacoFireStop2 forms a completely sealed air barrier in wall cavities, attics and crawl spaces. Its performance is superior to commonly used fiberglass batt and loose fill insulation. It adheres to most building materials and will provide a continuous barrier against air infiltration for the life of the building. GacoFireStop2 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      | 4.1 at 1"   | h · ft <sup>2</sup> · °F/BTU |
| Tensile Strength:                                 | 77°F (25°C)                       | D1623     | 3.29        | psi                          |
| Open Cell Content:                                | 77°F (25°C)                       | D2846     | 96%         | %                            |
| Water Vapor Permeability:                         | 77°F (25°C)                       | E96       | 32          | perm-in                      |
| Dimensional Stability:                            | 168 hours @ 158°F (70°C) / 95% RH | D2126     | -13%        | % volume change              |
| Air Permeance @ 75 Pa (Infiltration/Exfiltration) | 77°F (25°C)                       | E283      | 0.014 at 1" | 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

ASTM E84, ANSJ 2.5, NFPA 255 and UL 723 (Exceeds requirements for Class 1 Foam)

| SYSTEM        | THICKNESS      | FLAME SPREAD INDEX | SMOKE DEVELOPED INDEX |
|---------------|----------------|--------------------|-----------------------|
| GacoFireStop2 | 3.5" (8.89 cm) | 10**               | 350**                 |

\*\*Testing was done at 3.5" thickness. When covered with 1/2" gypsum, the installed thickness is unlimited based on room corner fire tests in accordance with NFPA 286.

### ROOM CORNER FIRE TESTING

| PROPERTY                                     | TEST              | RESULTS                                      |
|--|-------------------|--|
| Ignition Barrier for Attics and Crawl Spaces | AC377, Appendix X | Pass at 15" without a coating                |
| Alternative Thermal Barrier                  | NFPA 286          | Pass at 18" coated with DC315 at 18 mils WFT |

### 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:  |                  |           | 4,000 ± 500   |                  |
| Lbs/gal and S.G. – "A" Component:   | 77°F (25°C)      |           | 10.35 / 1.24  | lbs/gal and S.G. |
| Lbs/gal and S.G. – "B" Component:   |                  |           | 9.99 / 1.20   |                  |
| Mixing Ratio – "A" & "B" Component  | 77°F (25°C)      |           | 1:1   | By volume        |
| Stability: Stored at 60°F to 100°F (16°C to 38°C)<br>Do not store "B" Component below 40°F (5°C). | 77°F (25°C)      |           | "A" Component: 12 months<br>"B" Component: 6 months | Months           |

### EQUIPMENT SETTINGS

| SETTING                    | VALUE                       |
|----------------------------|-----------------------------|
| Pre-Heat: Iso (A)          | 90°F - 135°F (32°C - 57°C)  |
| Pre-Heat: Poly (B)         | 90°F - 135°F (32°C - 57°C)  |
| Hose Heat                  | 90°F - 135°F (32°C - 57°C)  |
| Recommended Spray Pressure | 1,200 - 1,500 psi (dynamic) |

### SPRAY REACTIVITY PROFILE

| CHARACTERISTIC | VALUE     |
|----------------|-----------|
| Cream Time     | 0 - 1 sec |
| Rise Time      | 2 - 5 sec |
| Tack Free Time | 2 - 5 sec |
| Cure Time      | 1 hour    |