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# GACO WESTERN

*Product Data Sheet:*

**GacoGreen 052**  
February 2007  
Supersedes: 10/06



## GACO WESTERN GACOGREEN 052

**DESCRIPTION:**

GacoGreen is a water blown spray-applied system that cures to a semi-rigid very low-density foam. In-place density ranges from 0.50 – 0.65 lb/ft<sup>3</sup>. The cured product is dimensionally stable in all weather conditions and its insulating properties do not significantly diminish over time. GacoGreen is safe for the environment, containing no formaldehyde or ozone depleting chemicals. GacoGreen 052 is a Class I fire rated foam.

**TECHNICAL INFORMATION:**

GacoGreen 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 board stock. It adheres well to most building materials and will provide a continuous barrier against air infiltration for the life of the building. Due to its semi-rigid nature it adds strength to the wall structure but is flexible enough to withstand normal expansion and contraction of building components. Yields up to 15,000 board feet per kit (1,000 Lbs.) are possible under optimum conditions.

**SPECIAL HANDLING PRECAUTIONS:**

The catalyst for GacoGreen is shipped separately and must be thoroughly mixed into the Poly "B" drum before use. This catalyst is very light and will float. Adequately powered mixing equipment must be used to create a vortex, which will pull the catalyst down into the Poly component.

**NOTE:** When spraying in poorly ventilated areas, supplied-air breathing apparatus and eye protection is required.

**EQUIPMENT RECOMMENDATIONS:**

Probler or GAP air purge spray gun:  
Minimum operating Pressure: 1,200 psi with a #01 Chamber / 1,400 psi with a #02 Chamber  
Optimum Material Temperature: 120°F (49°C) to 140°F (60°C) (At the gun)

**NOTE:** A special fan spray assembly, available through Gaco Western, is required when spraying below optimum pressure and temperature.

| Property            | Test Temp.  | ASTM Test  | Unit                               | Value      |
|---------------------|-------------|------------|------------------------------------|------------|
| Density             | 77°F (25°C) | D-1622-93  | lbs/ft <sup>3</sup>                | 0.52       |
| K-Factor / R Value  |             | C-518      | BTU, in/ft <sup>2</sup> , hr, °F/R | .263 / 3.8 |
| Tensile Strength    | 77°F (25°C) | D-1623-78  | psi                                | ~ 6.0      |
| Closed Cell Content | 77°F (25°C) | D-2856C-94 | %                                  | < 5%       |

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Gaco Western has you Covered with Innovative Solutions.*

| Property   | Test Temp.                      | ASTM Test | Unit            | Value             |
|--|---------------------------------|-----------|-----------------|-------------------|
| Water Vapor Transmission                                     | 77°F (25°C)                     | E-96-95   | perm-inches     | 16.8              |
| Dimensional Stability<br>@ 28 Days / Ambient R.H.            | -20.2°F (-29°C)<br>176°F (80°C) | D-2126-94 | % Vol<br>change | -0.56 %<br>-7.2 % |
| Air Permeance:<br>3 Inches @ 1.56 psf<br>5 Inches @ 1.56 psf | 77°F (25°C)                     | E-283     | cf/m/sq.ft.     | 0.04<br>0.01      |

#### Surface Burning Characteristics (CAN/ULC S102-M88)

| PolyFoam System | Thickness    | Flame Spread Classification | Smoke Developed Classification |
|-----------------|--------------|-----------------------------|--------------------------------|
| GacoGreen 052   | 5" (12.7 cm) | 20                          | 150                            |

#### TYPICAL LIQUID CHEMICAL PROPERTIES

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

| Property   | Test Temp.  | ASTM Test | Unit      | Value                        |
|--|-------------|-----------|-----------|------------------------------|
| Viscosity:<br>"A" Component<br>"B" Component                                   | 77°F (25°C) | D-2196-68 | cps       | 180 ± 20<br>300 ± 20         |
| Lbs/gal / S.G.<br>"A" Component<br>"B" Component                               | 77°F (25°C) |           | lbs/gal   | 10.25 – 1.23<br>9.54 – 1.145 |
| Mixing Ratio:<br>"A" & "B" Component   | 77°F (25°C) |           | by volume | 1:1                          |
| Stability: When stored at<br>50°F to 70°F (10°F - 21°C)<br>"A" & "B" Component |             |           | months    | 6 ***                        |

\*\*\* **Note:** Six-month period is for un-catalyzed material. After the catalyst has been added the shelf life will be two months when stored within recommended temperature range.

#### Processing Characteristics:

| Substrate Surface Temperature | Cream Time | Tack Free Time |
|-------------------------------|------------|----------------|
| 77°F (25°C)                   | 1/2 Sec.   | 5 - 8 Sec.     |

**NOTE:** Prior to installing a spray polyurethane foam interior insulation system, code officials should be consulted for recommendations and approvals. Federal, local and state building codes vary. All require that spray applied polyurethane foam insulation be covered with an approved 15 minute fire rated thermal barrier. One typically approved material is 5/8" gypsum wallboard applied over the spray polyurethane foam insulation. However, always check with local officials for recommendations and approvals. It is recommended that the approved thermal barrier be installed the same day the foam is applied.

All hot work, i.e., welding, torches and open flame work, must have been completed prior to commencing the installation of the polyurethane foam insulation. Smoking in the same area while the spray polyurethane foam insulation is being applied shall be strictly prohibited.

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