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GACO WESTERN

Product Data Sheet:

WallFoam™ 193
 (formerly PolyFoam 193)
 January 2007
 Supersedes: 12/05



GACO WALLFOAM™ SYSTEM 193

DESCRIPTION:

Gaco Western WallFoam 193 is an HFC blown (zero-ozone depleting) liquid spray system that cures to a low-density rigid polyurethane insulation material. Gaco WallFoam 193 contains material derived from naturally renewable resources and does not contain CFC's, HCFC's or other gases harmful to the environment. This system can be sprayed on clean dry substrates down to 35°F (1.66 °C). Refer to Gaco Western General Instructions, SG-GacoFoam for spraying instructions. Gaco WallFoam 193 is a Class I fire rated foam.

TECHNICAL INFORMATION:

Gaco WallFoam 193 is available in two standard grades for year round application. To ensure optimum performance, a minimum pass thickness of 3/4" (1.9 cm) is recommended with the maximum not to exceed 2" (5.1 cm) per pass. For typical equipment settings, consult Gaco Western's GacoFoam Spray Guide.

| Property | Test Temp. | ASTM Test | Unit | Value |
|--|--|-----------|---------------------|--------------------------------------|
| Nominal Density: Sprayed-in-Place | 77°F (25°C) | D-1622-93 | lbs/ft ³ | 1.8 – 2.0 |
| R Value: | | C-518 | R | 7.5 |
| Compressive Strength: Parallel to Rise | 77°F (25°C) | D-1621-94 | psi | 26.7 |
| Compressive Strength: Perpendicular to Rise | 77°F (25°C) | C-193-94 | psi | 13.0 |
| Water Vapor Transmission | 77°F (25°C) | E-96-95 | perm-in | 2.0 |
| Dimensional Stability: (28 Day) | 158°F (70°C) 97% RH -20.2°F (-29°C) Amb. RH | D-2126-94 | % Vol change | +3.67 -0.68 |
| Recommended Service Temperature Range | | | °F | -40°F (-4.4°C) to 200°F (93°C) |

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|---------------------|-------------|------------|---|------|
| Closed Cell Content | 77°F (25°C) | D-2856C-94 | % | 90.8 |
|---------------------|-------------|------------|---|------|

Fire Testing: Gaco WallFoam 193 has passed burn testing per ASTM E-84 and received a Flame Spread Index (FSI) of 25 and a Smoke Developed Index (SDI) of 400 at 4 inch thickness.

TYPICAL LIQUID CHEMICAL PROPERTIES

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

| Property | Test Temp. | ASTM Test | Unit | Value |
|---|-------------|-----------|-----------|--------------------------|
| Viscosity: "A" Component "B" Component | 77°F (25°C) | D-2196-68 | cps | 180 ± 20 400 ± 50 |
| Specific Gravity: "A" Component "B" Component | 77°F (25°C) | D-1638-70 | | 1.22 1.19 |
| Weight/Gallon: "A" Component "B" Component | 77°F (25°C) | | lbs/gal | 10.2 9.9 |
| Mixing Ratio: "A" & "B" Component | 77°F (25°C) | | by volume | 1:1 |
| Stability: When stored at 50°F to 70°F (10° - 21°C) "A" & "B" Component | | | months | A: 1 year B: 3 months |

NOTE: Prior to specifying and installing a polyurethane foam interior insulation system, code officials should be consulted for recommendations and approvals. Although federal, local and state building codes vary, all require that polyurethane foam insulation be covered with an approved 15-minute fire barrier. One typically approved material, for example, is 1/2" (1 cm) gypsum wallboard. 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 be completed prior to installation of the polyurethane foam insulation. Smoking in the same area while the spray polyurethane foam insulation is being applied shall be strictly prohibited.

Recommendations and safety considerations for application are outlined in Gaco Western's Spray Guide SG-GacoFoam. The aforementioned information on this product is to be used as a guide and is subject to change without notice. These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods and use of our products are beyond our control. Any obligation of the seller or manufacturer shall have no force or effect unless it is in writing and signed by officers of the manufacturer.

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