

## GACOROOFFOAM™ F2733 SPRAY-APPLIED POLYURETHANE FOAM

**A. PRODUCT DESCRIPTION:**

GacoRoofFoam F2733 is an HFC blown (zero-ozone depleting) liquid spray system that cures to a medium-density rigid polyurethane insulation for roofing applications. GacoRoofFoam 2733 does not contain CFCs, HCFCs or other gases harmful to the ozone layer.

**B. APPROVALS:**

GacoRoofFoam 2733 meets ASTM E108 Class A rating for external fire exposure and exceeds the requirements of ASTM C1029 (Type III). This product is part of multiple system approval by UL and FM 4470 – Class 1. GacoRoofFoam F2733 has a severe hail rating when combined with GacoFlex S2100.



**C. PACKAGED PRODUCT DATA\*:**

PROPERTY	STANDARD / METHOD	OBSERVED VALUE / DESCRIPTION
<b>CHEMICAL CLASSIFICATION</b>	N/A	"A" Component: Contains polymeric isocyanate "B" Component: Contains polyol, catalysts and blowing agents
<b>VISCOSITY</b>	ASTM D2196 @ 77 °F (25 °C)	"A" Component: 200 ± 50 cps "B" Component: 1150 ± 50 cps
<b>SPECIFIC GRAVITY</b>	ASTM D1638 @ 77 °F (25 °C)	"A" Component: 1.23 S.G. "B" Component: 1.17 S.G.
<b>DENSITY</b>	When measured @ 77 °F (25 °C)	"A" Component: 10.34 lb/gal (1.24 kg/L) "B" Component: 9.8 lb/gal (1.20 kg/L)
<b>MIXING RATIO</b>	N/A	"A" & "B" Component: 1:1 (by volume)
<b>STORAGE STABILITY</b>	When stored between 50 – 70 °F (10 – 21 °C)	"A" Component: 6 months "B" Component: 6 months

**D. APPLIED PRODUCT DATA\*:**

PROPERTY	STANDARD / METHOD	OBSERVED VALUE / DESCRIPTION
<b>NOMINAL DENSITY (SPRAYED-IN-PLACE)</b>	ASTM D1622 @ 77 °F (25 °C)	2.7 – 3.4 lb/ft³ (43.2 – 54.5 kg/L³)
<b>R-VALUE (AGED)</b>	ASTM C518	R-6.5 h·ft²·°F/Btu @ 1 in (25 mm) R-25 h·ft²·°F/Btu @ 3.5 in (89 mm)
<b>COMPRESSIVE STRENGTH: (PARALLEL TO RISE)</b>	ASTM D1621 @ 77 °F (25 °C)	53.7 psi (370 kPa)

<b>TENSILE STRENGTH</b>	ASTM D1623 @ 77 °F (25 °C)	60.2 psi (415 kPa)
<b>SHEER</b>	ASTM C273	44.1 psi (304 kPa)
<b>WATER VAPOR TRANSMISSION</b>	ASTM E96 Desiccant Method @ 77 °F (25 °C)	0.98 perm-in
<b>DIMENSIONAL STABILITY (28 DAYS)</b>	ASTM D2126 @ 158 °F (70 °C), 97 % RH	Width: 0.01 % (linear change) Length: 0.00 % (linear change) Depth: 0.00 % (linear change)
<b>WATER ABSORPTION</b>	ASTM D2842	0.5 % (Passed)
<b>CLOSED CELL CONTENT</b>	ASTM D2856C @ 77 °F (25 °C)	98.2 %
<b>SPREAD OF FLAME</b>	ASTM E84 / UL723	35 (Flame Spread Index)
<b>RECOMMENDED SERVICE TEMPERATURE RANGE</b>	N/A	-40 – 200 °F (-40 – 93°C)
<b>AUTO-IGNITION TEMP</b>	N/A	> 200 °F (> 93 °C)

**E. PRODUCT INSTALLATION:**

<b>STEP</b>	<b>INSTRUCTIONS</b>
<b>GENERAL RECOMMENDATIONS &amp; APPLICATION</b>	<p>To ensure optimum performance, a minimum pass thickness of 0.75 in (19 mm) is recommended with the maximum not to exceed 1.5 in (38 mm) per pass. It is recommended that the resin side pre-heater be set 10 – 15 °F (-12 – -9 °C) warmer than the Isocyanate side to equalize component viscosities. Maximum spray equipment temperature setting is 130 °F (54 °C).</p> <p>NOTE: This system can be sprayed on clean dry substrates down to 45 °F (7°C). GacoRoofFoam 2733 must not be applied if the temperature during application is less than 5 degrees above the dew point.</p> <p>NOTE: 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.</p>

\* For specific Safety and Health information please refer to the appropriate Safety Data Sheet that is associated with this product.