B-5019 HFO

B-5019HFO / A-2732 is a two-component spray applied insulation polyurethane foam system, medium density specially formulated with hydrofluoro-olefin (HFO), the latest advancement in foam blowing agent technology.

The HFO blowing agent used in B-5019HFO resin has a global warming potential (GWP) of 1, 99.9% lower than HFC blowing agents. HFO blowing agent is non-ozone-depleting and non-flammable.
This system is an ASTM E-84 CLASS 1 Spray Foam System.

LED BY COMMITMENT

PREMIUM PRODUCT

Genyk uses the highest-grade raw materials and state-of-the-art manufacturing facilities. The result is a durable product with industry leading thermal resistance

SUSTAINABILITY

With its outstanding thermal performance and a GWP of 1, HFO blowing agent is a balanced solution to today's environmental and performance challenges in insulated foam applications.

LOCALLY REPRESENTED

Genyk is a Canadian manufacturer. Each region has local representation to offer the most knowledgeable service.

COMPONENT PROPERTIES		
PROPERTIES	ISOCYANATE A-2732	RESIN B-5019 HFO
Appearence	Brown Liquid	Amber Liquid
Viscosity at 25ºC	150 – 250 cps	250 - 400 cps
Specific Gravity at 25ºC	1.24	1.18 – 1.22
Shelf Life	12 months	6 months
Ratio (volume)	100	100

REACTIVITY PROFILE	
Cream Time (seconds)	0 - 1
Gel Time (seconds)	2 - 3
Tack Free Time (seconds)	4 – 5
Free Rise Density (lb/ft3)	2.20 – 2.40

Laboratory results based on machine mixing (Graco E-30) at 110ºF/1000psi. Properties shown below are to be used as a guide only and not intended for specification properties.

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TYPICAL PHYSICAL PROPERTIES		
Physical Properties	**ASTM Method**	**Value**
Density (in place) *	D 1622	2.20 – 2.40 lb/pi3
Compressive Strength	D 1621	36.0 psi
Dimensional Stability	D2126 (7days, -25ºC, ambient R.H)	+0.1 %
	D2126 (7days, +80ºC, ambient R.H)	+0.51 %
	D2126 (28 days +700C,97% +-3% R.H)	+5.24 %
Tensile Strength	ASTM D1623	22.0 psi
Initial Thermal Resistance	ASTM C518 (50mm)	2.57 K.m2/W =R 14.8(7.4/in)
Aged Thermal Resistance	ASTM C518 (50 mm)	2.40 k.m2/W =R 13,8 (6.9/in)
Flame Spread Index	ASTM E-84	20
Smoke Develop Index	ASTM E-84	300

PACKAGING

Genyk A-2732 is supplied in 227 kg drums and 1,250 kg totes. Genyk B-5019HFO is supplied in 225 kg drums and 1,125kg totes.

During the application, it is important not to exceed 51 mm (2 in) per pass, in order not to alter the quality of the foam.

Before handling these chemicals, please consult the Safety Data Sheet for the two components, that are available from Genyk.

STORAGE CONDITIONS AND HANDLING

All materials should be stored in their original containers and away from heat and moisture, especially after the seals have been broken and the containers have been opened. Shelf life is 6 months for the resin and 12 months for the isocyanate when stored indoors at a temperature between 60ºF (15ºC) and 77ºF (25ºC) for the resin and 60ºF (15ºC) and 100ºF (38ºC) for the isocyanate. Storage below 60ºF (15ºC) may result in compound stratification of the B and/or crystalline formation in the A component. Temperatures above the maximum storage temperatures may decrease the shelf life. Containers should be opened carefully to allow any pressure build-up to be vented safely. Extensive venting of the B component may result in loss of blowing agent, higher-density foam and reduced yield. Temperatures below 60ºF (15ºC) will increased the viscosity of the components making them difficult to pump. Both components are adversely affected by water and humidity.

ADDITIONAL INFORMATION

- The service temperature is between -60°C and 85°C (-76°F and +185°F).
- Temperature, humidity, equipment, substrate can vary installation parameters.