

TECHNICAL DATA SHEET**B5019-C1 / A-2732****SPRAY APPLIED INSULATION
POLYURETHANE FOAM SYSTEM**

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DESCRIPTION

B5019-C1 / A-2732 is a two-component spray applied insulation polyurethane foam system, medium density specially formulated without any ozone depletion substances (zero ODS). This system is based on renewable substances and recycled products. This system is a CLASS 1 Spray Foam System.

COMPONENT PRODUCT SPECIFICATIONS

PROPERTY	POLYMERIC ISOCYANATE A-2732	B5019-C1 RESIN
Appearance	Brown liquid	Amber liquid
Viscosity at 25°C	150-250 cps	250 - 400 cps
Specific gravity	1.22 – 1.25	1.17 – 1.21
Shelf life	12 months	6 months

TEMPERATURE AND PARAMETERS

Installation Temperature (Ambient and substrate)	Component Temperature (A & B)	Minimum Spraying Pressure
0°C to 35°C (32°F to 95°F)	35 – 45°C (95-113°F)	5516 kPa (800 psi)

REACTIVITY PROFILE

Cream Time**Gel Time****Rise Time**

0-1 second

2-3 second

4-5 second

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TYPICAL PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	STANDARD	RESULT
Density (core)	ASTM D1622	2.10 lb/ft ³
Compressive Strength	ASTM D1621	25 psi
Dimensional Stability	ASTM D2126 (28 days, -20°C, Ambient R.H.)	-0,75%
	ASTM D2126 (28 days, +80°C, Ambient R.H.)	-4.10%
	ASTM D2126 (28 days +70 ⁰ C, 97% +-3% R.H.)	+4,60%
Tensile Strength	ASTM D1623	30.5 psi
Initial Thermal Resistance	ASTM C518 (50mm)	2.57 K.m ² /W =R 14.8(7.4/in)
Aged Thermal Resistance	ASTM C518 (50 mm)	2.40 k.m ² /W =R 13,8 (6.9/in)
Flame Spread Index	ASTM E-84	25
Smoke Develop Index	ASTM E-84	395

ADDITIONAL INFORMATION

The service temperature of this foam is between -60°C and +80°C (-76°F and +176°F). When spraying this foam system, the sprayer should not exceed 51 mm (2 inches) per pass. Spraying thicker could result in a sudden combustion of the foam which can happen hours after the installation of the foam. As with any plastic insulation, this foam is combustible and must be protected by an approved thermal barrier (Building code of Canada or local standards).

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 60°F (15°C) and 77°F (25°C) for the resin and 60°F (15°C) and 100°F (38°C) for the isocyanate. Storage below 60°F (15°C) 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 60°F (15°C) will increased the viscosity of the components making them difficult to pump. Both components are adversely affected by water and humidity.

HEALTH AND PERSONAL PROTECTION

Before handling these chemicals, please consult the Material Safety Data Sheets for the two components. Material Safety Data sheets on product components are available from Genyk Inc.

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