

TECHNICAL DATA SHEET

**B5030 / A-2732**  
**ROOFING FOAM**

**SPRAY APPLIED INSULATION  
 POLYURETHANE FOAM SYSTEM**



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## DESCRIPTION

B5030 / A-2732 is a two-component, closed cell polyurethane foam system specifically designed to provide a high performance roofing system. This foam must be covered by a proper membrane that will protect the foam from water infiltration and UV rays.

B5030 / A-2732 should be applied passes of no less than 1.0 inch and no more than 2.0 inch thickness per pass. Applying less than 1.0 inch per pass will result in elevated density and may not cure properly, reducing the physical performance properties of the system. Application of greater than 2 inches will result in reduced density and physical properties and may also create scorching of the foam as a result of the exothermic reaction. In extreme cases, the foam can ignite due to high exothermic reaction.

## COMPONENT PRODUCT SPECIFICATIONS

PROPERTY	POLYMERIC ISOCYANATE A-2732	B5030 RESIN
Appearance	Brown liquid	Amber liquid
Viscosity at 25°C	150-250 cps	300-600 cps
Specific gravity	1.22 – 1.25	1.15 – 1.20
Shelf life	12 months	6 months

## TEMPERATURE AND PARAMETERS

Installation Temperature (Ambient and substrate)	Component Temperature (A & B)	Minimum Spraying Pressure
10°C to 35°C (50°F to 95°F)	35 – 45°C	5516 kPa (800 psi)

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## TYPICAL PHYSICAL PROPERTIES

PHYSICAL PROPERTIES	STANDARD	RESULT
Density (core)	ASTM D1622	3,0 – 3.2 lb/ft <sup>3</sup>
Compressive Strength	ASTM D1621	50 -55 psi
Dimensional Stability	ASTM D2126 (28 days, -20°C, Ambient R.H.)	-0,50%
	ASTM D2126 (28 days, +80°C, ambient R.H.)	-4,02%
	ASTM D2126 (28 days +70°C, 97% +-3% R.H.)	+3,54%
Tensile Strength	ASTM D1623	➤ 55 psi
Open Cell Content	ASTM D2856	< 4 %
Water Absorption (volume)	ASTM D2842	< 1 %
Water Vapor Permeance	ASTM E96	< 45 ng(Pa.s.m <sup>2</sup> )
Aged Thermal Resistance (50 mm)	ASTM C518	R = 5.9 / inch

### 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).

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## PACKAGING

Genyk Polymeric Isocyanate A-2732 is supplied in 227 kg drums and 1134 kg totes.  
Genyk B5030 / A-2732 resin is supplied in 225 kg drums and 1125kg totes.

## 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 increase 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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