

DURASEAL.

DURASEAL 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.

DURASEAL / Iso 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 more than 2 inches will result in reduced density and physical properties and may also create scorching of the foam because of the exothermic reaction. In extreme cases, the foam can ignite due to high exothermic reaction.

The HFO blowing agent used in DURASEAL resin has a global warming potential (GWP) of 2, 99.8% lower than HFC blowing agents. HFO blowing agent is non-ozone-depleting and non-flammable.

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 2, 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 DURASEAL HFO
Appearance	Brown liquid	Amber liquid
Viscosity @ 25°C	150 – 250 cps	350 - 500 cps
Specific Gravity @ 25°C	1.24	1.11 – 1.15
Shelf Life	12 months	6 months
Mixing Ratio (volume)	100	100

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°C – 45°C (95-113°F)	5516 kPa (800 psi)

TYPICAL PHYSICAL PROPERTIES

Physical Properties	ASTM Method	Value
Density (in place) *	D 1622	2.70 – 2.85 lb/pi3
Compressive Strength	D 1621	42 - 52 psi
Dimensional Stability	D2126 (7days, -25°C, ambient R.H)	-0.72 %
	D2126 (7days, +80°C, ambient R.H)	-4.20 %
	D2126 (28 days +70°C, 97% +-3% R.H)	+5.35 %
Tensile Strength	ASTM D1623	>55psi
Initial Thermal Resistance	ASTM C518 (50mm)	2.26 K.m2/W =R 13.2 (6.6/in)
Aged Thermal Resistance	ASTM C518 (50 mm)	2.19 k.m2/W =R 12.6 (6.3/in)
Open Cell Content	ASTM D-2842	< 4%
Water Vapor Permeance	ASTM E96	< 1%

Laboratory results based on machine mixing (Graco E-30) at 105°F/1000psi. Properties shown below are to be used as a guide only and not intended for specification properties.

PACKAGING

Genyk A-2732 is supplied in 227 kg drums and 1,250 kg totes. Duraseal 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 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.

ADDITIONAL INFORMATION

- This product is combustible and must be installed in accordance with applicable building codes.
- The service temperature is between -60°C and 149°C (-76°F and +300°F).
- Temperature, humidity, equipment, substrate can vary installation parameters.

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