Era Polymers Pty. Ltd.
25-27 Green Street, Banksmeadow
Sydney, NSW 2019
AUSTRALIA
www.erapol.com.au

Greenlink GP6

GENERAL PURPOSE POLYURETHANE FOAM

TECHNICAL DATASHEET

Greenlink GP6 is a high-density rigid polyurethane foam product for pour in place applications. The formulation contains fire-retardant and has a nominal free-rise density of 96 kg/m^3. This product is water blown foam.

Greenlink GP6 is formulated for use where excellent flow properties are required in void filling and to improve strengths of structural components. The product can be manually drill mixed (@ a minimum speed 2000 rpm) or processed through low-pressure foam-dispensing equipment.

Component Properties

	POLYOL	ISOCYANATE
Specific Gravity	1.06	1.23
Brookfield Viscosity (cps)	2500	200
Appearance	Opaque Liquid	Brown Liquid

Reaction Profile

Laboratory results based on hand-mix @ 21°C

Mix ratio by weight (Polyol : Iso) **100 : 100**

Mix Time (seconds)	20
Cream Time (seconds)	54
Gel Time (seconds)	220
Tack Free Time (seconds)	480
Free Rise Density (kg/m^3)	90

Typical Physical Properties

Properties presented below are to be used as a guide and not intended for specification purposes.

	Greenlink GP6	TEST METHOD
Foamed Density (kg/m^3)	106	
Compressive stress @ 10% (kPa) **Parallel to the rise**	1062	AS2498.3
Compressive stress @ 10% (kPa) **Perpendicular to the rise**	1058	AS2498.3
Closed Cell Content (%)	>92	AS2498.7
Thermal Conductivity-initial (W/mK)	0.0296	ASTM C518
Flexural strength (MPa)	1.9	AS2132

Storage Conditions and Handling

The components are sensitive to humidity and should at all times be stored in sealed drums. The recommended storage temperatures are 18-25°C, which will give a normal shelf life of 12 months in the original unopened drums. At elevated temperatures problems may arise with pressure build-up within the drums. When opening these drums extreme care must be exercised in releasing the internal pressure. It is recommended that the drum contents should be mixed well before use.

Health and Personal Protection

Before handling these chemicals please consult the Material Safety Data Sheets for the two components. The polyol component contains tertiary amines. Contact with the skin or eyes must be avoided. Safety goggles and protective gloves should be worn whenever handling both of the chemicals. Splashes that come into contact with the skin must be wiped off immediately and the contaminated area washed with soap and water. Splashes in the eye must be flushed immediately with plenty of clean running water. If irritation occurs thereafter contact an eye specialist.

General Information

At temperatures less than 15°C the reaction rate of **Greenlink GP6** will be much slower resulting in an increase in density, and reduction in foam yield and quality. Under these conditions we recommend the use of drum heaters or temperature-controlled conditions for drums storage.