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AUSTRALIA
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Ecofoam GP330

GENERAL PURPOSE POLYURETHANE FOAM

TECHNICAL DATASHEET

Ecofoam GP330 is a general purpose rigid polyurethane foam product for pour in place applications. The formulation contains fire retardants and has a free rise density of 33 kg/m^3. This product contains no CFC's or HCFC's and is environmentally friendly foam that has no ozone depleting potential.

Ecofoam GP330 can be manually drill mixed (@ a minimum speed of 2500 rpm) or processed through foam-dispensing equipment. Polyurethane foam can be used in a wide variety of insulation applications, buoyancy, or cavity filling applications.

Component Properties

	Polyol	Isocyanate
Appearance	Hazy straw coloured liquid	Brown liquid
Brookfield Viscosity (cps) @ 20℃	660	250
Specific Gravity @ 20℃	1.15	1.22

Reaction Profile

Laboratory results based on hand-mix @ 20°C

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

Mix Time (seconds)	20
Cream Time (seconds)	35
Gel Time (seconds)	145
Tack Free Time (seconds)	230
Free Rise Density (kg/m^3)	33

Typical Physical Properties

Foamed Density	40 kg/m³	
Compressive Strength (@10%)	➢ 200 kPa	Test Method AS 2498.3
Closed Cell Content	> 90 %	Test Method AS 2498.7
Thermal Conductivity	0.0256 W/mK	Test Method 518

Dimensional Stability (Measured as % change in dimension)		Test Method AS AS2498.6
Density of foam tested at 54 kg/m³		

	Width	Length	Thickness
1 week @ -15°C	-0.08 %	-0.33 %	0.1 %
1 week @ 70°C	-0.3 %	-0.33 %	-0.13 %

Storage Condition 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 15oC the reaction rate of **Ecofoam GP330** 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 temperature controlled conditions for drums storage. The degree of insulation is determined by the thickness of the foam used. For cavity fill or moulding applications a moulded density of 38-40 kg/m³ may be used.