

"Poly Foam"

General Purpose Polyurethane Foam

Era GP2 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 32 to 35kg/m³.

The product can be hand-mixed or processed through a polyurethane foam dispensing equipment. This product has been designed for use in a wide range of insulation, buoyancy, or cavity filling applications.

COMPONENT PROPERTIES

| | Isocyanate | Polyol |
|-----------------------------------|-------------------|------------------------------|
| Appearance | Brown Liquid | Clear, amber coloured liquid |
| Brookfield Viscosity (cps) | 250 | 750 |
| Specific Gravity | 1.22 | 1.14 |

REACTION PROFILE

Laboratory results based on hand-mixing @ 20°C

Mix ratio by weight (Polyol : Isocyanate) 100 : 100

| | |
|---------------------------------|-----|
| Mix Time (seconds) | 20 |
| Cream Time (seconds) | 38 |
| Gel Time (seconds) | 175 |
| Take-Free Time (seconds) | 235 |

TYPICAL PHYSICAL PROPERTIES

| | | |
|--|------------------|---------------------|
| Foamed Density (kg/m³) | 32 to 35 | |
| Compressive Strength @ 10% (kPa) | 241 | (Based on AS2498.3) |
| Closed Cell Content (%) | >92 | (Based on AS2498.7) |
| Thermal Conductivity-initial (W/mk) | 0.0196 | |
| Water Absorption @ 23°C (%) | 1.46 (by volume) | (Based on AS2498.8) |

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 you a normal shelf life of 12 months. At elevated temperatures problems may arise with pressure build-up within 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 components contain tertiary amines. Contact with 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 eyes must be flushed immediately with plenty of clean running water. If irritation occurs thereafter contact an eye specialist.

GENERAL INFORMATION

1. The degree of insulation is determined by the thickness of the foam used. For cavity fill or moulding applications, it is recommended to mould to a density of 38-40 kg/m³.
2. At temperatures less than 15°C the reaction rate of Era GP2 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.