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TECHNICAL DATA

Ecofoam GP450

GENERAL PURPOSE POLYURETHANE FOAM

Ecofoam GP450 is medium-density rigid polyurethane foam for slab stock and in-situ pour in place applications. The formulation contains fire-retardant, which gives the foam self-extinguishing properties. The nominal free-rise density of the foam is 45 kg/m³. This product contains no CFC's or HCFC's and is environmentally friendly foam that has no ozone depleting potential.

Ecofoam GP450 is formulated for use where excellent flow properties are required in void filling and to improve strengths of structural components. The system can be manually drill mixed (@ a minimum speed 2000 rpm) or processed through a low-pressure foam-dispensing machine.

COMPONENT PROPERTIES

	Polyol	Isocyanate
Appearance	Clear, straw coloured liquid	Brown liquid
Brookfield Viscosity (cps)	720	250
Specific Gravity	1.15	1.23

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)	39
Gel time (seconds)	200
Tack free time (seconds)	410
Free rise density (kg/m ³)	45

This information is of general nature and is supplied without recommendation of guarantee. It does not make claim to be free from patent infringement. Properties shown are typical and do not imply specification tolerances. Era Polymers cannot accept liability for loss or damage through use. Whilst these technical details are based on expert knowledge, practical experience and laboratory testing, successful application depends upon the nature and conditions in which the products are supplied. Users must, by comprehensive testing, evaluate this product in their own application.



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TYPICAL PHYSICAL PROPERTIES

Foamed Density	48-50 kg/m ³	
Compressive Strength (@ 10%) Parallel to the rise of foam	266 kPa	Test Method AS2498.3
Closed Cell Content	91 %	Test Method AS2498.7
Thermal Conductivity (W/mK)	0.031	Test Method ASTM C 518

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 3 months. 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 **Ecofoam GP450** 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.

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