

ECOFIL 45

1 :1 Mix All Water Blown Foam System

Product Description

Mix Ratio:- Resin : Isocyanate 50:50 [by volume] or 47:53 [by weight].

ECOFIL 45 is a two component CFC AND HCFC FREE, water blown rigid foam system designed to produce a polyurethane foam with a fine cellular structure, low friability and good adhesion to substrates.

ECOFIL 45 is specially formulated to be easy to use at 1:1 by volume hand mix techniques using an electric driven mixer. It can be processed through suitable dispense machinery (i.e. High Pressure or Low Pressure). This system will produce polyurethane foam for use in conventional PUR moulding applications. Contact Isothane Technical Staff for specific machine recommendations.

Component Description

Ecofil 45 Resin component is a fully formulated liquid mixture. It should be stored in sealed tanks or drums and heated to 20°C - 25°C prior to use and thoroughly mixed with a mechanical stirrer prior to use.

Viscosity @ 20°C = 350 mPa.s (cps)
Specific Gravity @ 20°C = 1.11.

M27 Isocyanate component is liquid mixture containing crude Diphenyl-methane-diisocyanate it should be stored in sealed tanks or drums and heated 20°C - 25°C prior to use. Shelf life for both components is 6 months.

Viscosity @ 20°C = 325 mPa.s (cps)
Specific Gravity @ 20°C = 1.24.

Storage, Handling And Personal Protection

The recommendations in our Safety Data Sheet for this product must be followed at all times. More general information is included in our publication "A Guide to the Safe Handling of Polyurethane Resins" and the following Technical Data Sheets which are available on request: -

- Fire Safety when storing, Handling and Installing Polyurethane Foam.
- Decontamination of Isocyanates using Isothane Decontaminant.



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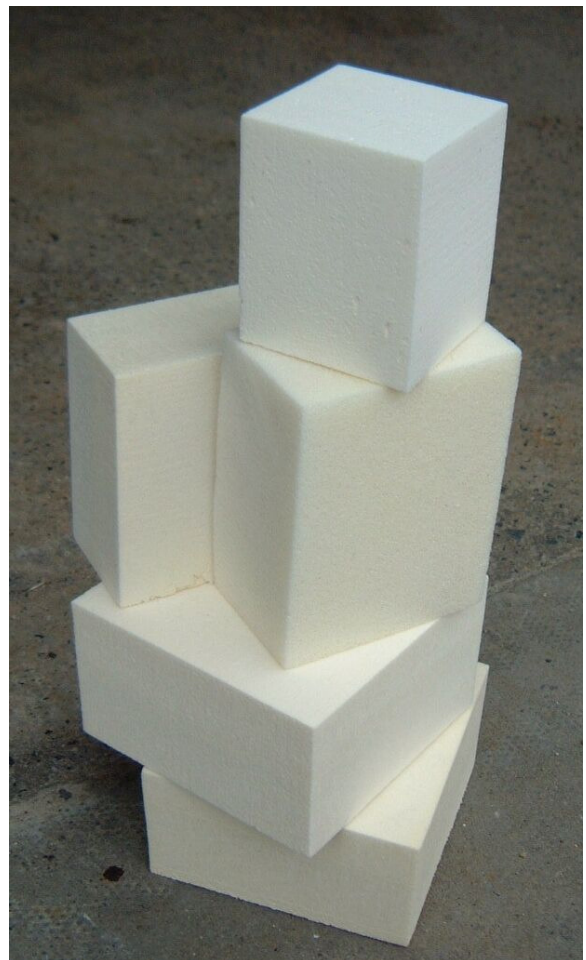
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Physical properties

Typical Laboratory prepared test results @ 20°C:

Cream Time	34	
	seconds	
Rise Time	185	
	seconds	
Free Rise Density	45	
	kg / m ³	
Core Density	45	BS4370
	kg / m ³	
Compressive Strength	175	BS4370
- Parallel to rise	kPa	
Shear Tensile Strength	135	BS4370
- Perpendicular to rise	kPa	
Closed Cell Content	90%	BS4370
	min	
Thermal Conductivity	0.032	ASTM
- 20% Mean	W / mK	D2856



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