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Isofoam SS 6400

Zero ODP
Rigid Foam Spray System

Description

Isofoam SS 6400 is the resin component of a two part, MDI based rigid (PUR) foam system designed for producing rigid foam by spray in place techniques.

The RESIN component is a fully formulated liquid mixture. Store at ambient temperatures (18-22°C). Keep drums closed when not in use, and thoroughly mix (with mechanical agitation) before application to re-disperse any separated ingredients.

The ISOCYANATE component is a brown liquid grade of crude diphenylmethane di-isocyanate (MDI). Store at ambient temperatures (18-22°C). Protect from frost. Keep drums closed when not in use.

Typical Properties

RESIN Component

Viscosity @ 20°C	400-600 mPa.s
Typical Specific Gravity @ 20°C	1.12

ISOCYANATE Component (Type 174)

Viscosity @ 20°C	300-400 mPa.s
Typical Specific Gravity @ 20°C	1.24

Mix Ratio 47.5% RESIN / 52.5% ISOCYANATE by weight
100 RESIN / 100 ISOCYANATE by volume

Typical reaction and density (at above ratio)

Cream time	4-6 sec	Laboratory cup mix
Rise time	14-18 sec	(electric drill stirrer)
Free rise core density	30-33 kgm^{-3}	both components @ 5°C

Safety Information

All polyurethane products are ORGANIC, combustible materials and may, therefore, present a fire risk if exposed to flame, fire and/or heat.

This Technical Data Sheet must always be used in conjunction with the appropriate Material Safety Data Sheets relating to the RES and ISO components of this product.

For further information please refer to BAXENDEN brochure, "Isocyanates and Polyurethanes Safety Advice".

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Application

Isofoam SS 6400 is the resin component of a two part, zero ozone depleting system which was designed for use on 1:1 by volume, spray dispensing equipment.

Typical Physical Properties

The following physical properties were obtained from sprayed sections of foam, using a GUSMER FF machine fitted with a Model D gun. The foam was sprayed in four passes, giving a foam thickness of approximately 60mm.

Properties	**Test Method**	**Units**	**Value**
Density (overall)	BS4370	Kgm^{-3}	45.9
Density (core)	BS4370	Kgm^{-3}	38.5
Thermal Conductivity @ 24°C mean temperature	Anacon ASTM C-518	$Wm^{-1}\ K^{-1}$	0.021
Closed Cell Content, corrected	ASTM D-2856	%	96
Compressive Strength			
Parallel to rise	BS4370	kPa	340
Perpendicular to rise	BS4370	kPa	142
Tensile interlaminar adhesion	BS5241	kPa	>262
Moisture vapour permeability	BS4370	$ng(m.s.Pa)^{-1}$	3.9
Dimensional Stability, max volume change			
24 hrs @ +100°C	ASTM D2126	%	+1.1
24 hrs @ -15°C	ASTM D2126	%	-0.2
Surface spread of flame (1*)	BS476: part 7: 1987		Class 1

(1*) This is a laboratory scale test and should be used for comparative purpose. It is NOT to be used to assess the potential fire hazard of a material in use.

The above physical properties have been obtained under the conditions stated. The physical properties obtained when making different items or using alternative conditions to those detailed above, may vary and should be determined for the intended application.

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