

TECHNICAL INFORMATION

RIGI-FOAM 32 RIGID POUR FOAM SYSTEMS

Description and Uses:

Rigi-Foam 32 is a two component, nominal 32kg/density, HCFC-141B carbon dioxide blown rigid pour polyurethane system. The formulation is designed for use by hand mix (power drill & paint mixer) or through plural component polyurethane dispensing equipment. Rigi-Foam 32 is recommended for use in applications requiring maximum strength to weight ratio where insulation is required, or to fill small voids like spas, design displays, etc.. The foam also finds employment in marine applications like buoys, and dockfloats, (maximum pour shot - 45kg at one time).

<u>Physical Properties @ 75 degrees F</u>	<u>Test Methods</u>	<u>Value</u>
The following physical properties were determined from cured foam.		
Density (cup)	ASTM D-1622	1.8 +/- .2pcf
Density (moulded)	ASTM D-1622	2.4 +/- .2pcf
K-Factor (BTU/sq.ft-hr.Degrees F/In)	ASTM C-177/C-518	0.16 to 0.18 aged
Closed cell content	ASTM D-1940/D-2856	> 90%
Compressive strength	ASTM D-1621	26 psi
Tensile strength	ASTM D-1623/D-412/D-638	37 psi
Adhesion	ASTM D-1623/D-412	= to tensile
Shear strength	ASTM C-273	24 psi
Water absorption	ASTM D-2127/D-2842	<0.05 psf
Water vapor transmission	ASTM C-355/E-96	<2 perms

<u>Dimensional Stability Aged</u>	<u>Test Temp</u>	<u>Value</u>
7 days	158 degrees F	8%
28 days	158 degrees F	11.5%

Processing Parameters@ 75 degrees F

Mixing ratio	50/50 by weight
Cream time	25 secs
Gel time	165 secs
Rise time	180 secs
Density	32 kg/m3

Mixing Instructions:

Cream time of material: The mixture should be mixed and poured before the cream time has been reached.

Temperature of the Polyol / Isocyanate: If the ambient and chemical temperatures are too high then the cream time is much faster.

Batch Size: Larger batch sizes react quicker than smaller batch sizes.

1. Weight out Polyol into clean dry container
2. Into same container, add correct amount of Iso.
3. Drill stir for approx half cream time or less ensuring full mix
4. Pour material

CERTIFICATION AND FLAMMABILITY CRITERIA

Une 23 727 -90 Certificate LGIA # 98009396 15th May 1998 – M3 Classification

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