TECHNICAL DATA

P U -M B -4 0

Polyurethane Spray System MB-40 is a two component, fluorocarbon blown, Polymeric M.D.I. based system for producing rigid Urethane foam with a nominal core density of 40 KG/M3 by spray process, this has been designed especially for roof applications.

The preferred spray machine is a Gusmer FF or H-II with suitable spray gun.

Components Properties and Storage Characteristics.

ISO component is a dark brown colored undistilled grade of Polymeric Diphenyl Methane Di-isocynate (Crude M.D.I). This is to be stored at room temperature in sealed drums. Moisture will react with this component to produce a surface skin or polymerized material. Care should be taken to close all drums after use.

Viscosity	@ 25 C	150 – 200 CPS
Specific gravity	@ 25 C	1.24

Polyol Component is a blend of Polyols, Fluorocarbon blowing agent, catalysts and Stabilizers.

It should be stored below 24 C in sealed drums.
Drums should be closed soon after use to prevent loss of blowing agent and absorption of moisture.

Viscosity	@ 20 C	450 CPS (approx.)
Specific gravity	@ 20 C	1.18

Component Mix Ratio – 1:1 by volume.

Total reaction rate and density (Laboratory cup mix)

Both components	@ 20 C
Cream time	5 – 8 seconds
Tackfree time	15 – 25 seconds
Free rise Density	30 – 32 Kg/M3

Reaction will vary slightly depending on ambient temperature and the type of machine used.

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Typical physical properties MB-40

	Unit	Value	Test Method
Sprayed core density ASTM-D 162 2	KG/M3	38-40	
Thermal Conductivity ASTM-C 177 63	W/M K		
Initial		0.017	
Aged		0.022	
Compressive Strength Parallel to rise D1 1621 64	KG/CM2	2.82-3.5	ASTM
Tensile Strength			
With rise 1621 64	KG/CM2	3.2-3.5	ASTM-
Dimensional Stability (Linear charge)			
7 days at 70 C 100% RH	%	<1-0	
7 days at 100 C dry heat 2166-66	%	+ 1.5	ASTM-D
7 days at 20 C 100% RH	%	< 2-0	
Closed cell content 2856-70	%	92-94	ASTM-D
Water vapor permeability Without facing 355	Perm/inch	1.5	ASTM
Water absorption (Max.) 2842	%	By vol. 1.5	ASTM
Burning characteristics 1692 74	Fire retarded (Self Extinguishing)		ASTM

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