DEMILEC (USA) LLC.
POLYURETHANE SYSTEMS MANUFACTURER

DEMILEC B352-0 / A100-4

POUR-IN-PLACE SYSTEM

TECHNICAL DATA SHEET

DEMILEC B352-0 / A100-4 is a rigid two component urethane foam system, specially formulated for pour-in-place applications. This system, utilizing the environmentally friendly blowing agent 245fa, exhibits good flow characteristics and mixes well using a high or low-pressure machine.

DEMILEC B352-0 / A100-4 meets the requirements of the US Coast Guard Specification "Code of US Regulation": Navigation and Navigable Waters Article # 183-114. This test was performed at an independent laboratory.

Applications :

- Flotation
- Insulating panels

Important:

It is important to monitor the in-place density of the foam as stated in the processing recommendations (see reverse page). A lower density will result in poor physical properties. Furthermore, proper temperature (110 – 130^{0}F) of the substrates is critical in order to obtain a good adhesion of the foam to the substrate. It is the user's responsibility to test the product to ensure it performs to their expectations.
The shelf life of the resin B352-0 is 12 months from the date of manufacture if stored in closed original containers at room temperature.

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DEMILEC B352-0 / A100-4

LIQUID COMPONENT PROPERTIES

PROPERTIES	ISOCYANATE	RESIN
Colour	Brown	Yellowish
Viscosity @ 25°C (cps)	150-350	400-700
Specific gravity	1.20-1.24	1.11-1.15
Mixing ratio (weight)	110	100
Mixing ratio (volume)	100	100

PROCESSING RECOMMENDATIONS

Type of machine	A high or a low pressure machine	
Isocyanate temperature	20-23°C	68-73°F
Resin temperature	20-23°C	68-73°F
Mold or panel temperature	43-54°C	110-130°F
Minimum in-place density recommended	**40 kg/m³**	**2.5 lb/ft³**

REACTIVITY PROFILE

	HANDMIX*	MACHINE**
Cream time (sec.)	20-25	10-14
Gel time (sec.)	150-165	75-90
Tack free time (sec.)	300-400	190-260
Free rise density (lb/ft³)	2.00-2.15	1.90-2.05

*Mixer 2 inches @ 2500 RPM for 10 seconds, liquid components at 20°C
** High pressure machine (2500 psi), liquid components at 23°C

PHYSICAL PROPERTIES

DESCRIPTION	RESULTS	ASTM
Density (in-place)	40 kg/m³ 2.50 lb/ft³	D 1622
Thermal resistance R (2 in. thick panel, 2 days @ 23°C)	1.23 m².°C / W 7.0 ft².h.°F / btu.in	C 518
Thermal conductivity K (2 in. thick panel, 2 days @ 23°C)	0.811 W / m².°C 0.143 Btu.in / ft².h.°F	C 518
Thermal resistance R (2 in. thick panel, 90 days @ 23°C)	1.15 m².°C / W 6.5 ft².h.°F / btu.in	C 518
Thermal conductivity K (2 in. thick panel, 90 days @ 23°C)	0.873 W / m².°C 0.154 Btu.in / ft².h.°F	C 518
Compressive strength (parallel)	162 kPa 23.5 psi	D 1621
Dimensional stability (% vol. change @ 28 days)		D 2126
80°C, ambient relative humidity	0.19	
70°C, 90% relative humidity	2.71	
-30°C, ambient relative humidity	-0.59	
Flotation test (% absorption)		D 2842
Gasoline (30 days)	0.25	
Oil (30 days)	-0.31	
Bilgecleaner (30 days)	0.74	
Gas Vapour (30 days)	0.30	

These physical properties were obtained with the processing recommendations listed above.