

## TECHNICAL DATA

# MB 142 P

**MB 142 P** is a two component polyurethane system developed for the manufacture of rigid polyurethane foam. It has been especially designed for panel filling applications that serve as an excellent insulation material.

### Applications:

**MB 142 P** is mainly used for the production of sandwich panels. It is also recommended for molding, cavity filling and pour in place. The grade is suitable to be processed with dispensing machines and as well as manual mixing.

### Component A

Is a polymeric Diphenyl Methane Diisocyanate and has following properties.

Appearance	:	Clear dark brown
liquid		
Viscosity @ 25°C	:	180-220 cps
Specific Gravity @ 25°C	:	1.25
% NCO	:	31± 0.5

### Component B

Is a blend of different polyols, additives and blowing agents. It is specially formulated to give a self- extinguishing property to the polyurethane foam by incorporation of flame- retardants. The blowing agent used is HCFC 141B that leads to the formation of polyurethane foam. The typical properties of Component B are:

Appearance	:	Clear pale yellow
liquid		
Viscosity @ 25°C	:	350-400 cps
Specific Gravity @ 25°C	:	1.20

Mixing Ratio		
Polyol (component B)	:	100
Isocyanate	:	12

### Reaction Profile:

(for laboratory cup test results, when both the components maintained at 20°C)



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Cream Time	:	30-35 seconds
Gel Time	:	175-190 second
Tack free Time	:	300-320 second
Free rise density	:	27-29 kg/m <sup>2</sup>



### Typical foam properties for panels manufactured by horizontal injection using MB 142 P

Molded Density	Kg/m <sup>3</sup>	40-42
Closed cell content	%	94-96
Initial Thermal Conductivity	W/m <sup>°K</sup>	0.022
Dimensional stability (Linear Change)	%	< 1
72 hrs at -20°C	%	< 1
72 hrs at 70°C		
Fire performance	DIN 4102	B-3
Compressive strength (perpendicular to the main panel)	Kpa	220

Test methods are available on request

Packing :

Component A	:	250 kg net
Component B	:	225 kg net

### Safety Precautions During Handling:

Precautions should be observed to avoid prolonged skin contact with this product. If skin contact occurs all contaminated clothing should be removed and the affected skin area washed with soap and water. Goggles or eye shields should be worn when there is a danger of splashing or eye contact.

### Storage Information:

We recommend the component containers to be kept in a dry cool area at 20°C maximum. All the containers to be kept well closed to avoid contamination with moisture or any other foreign matter that would result in a negative performance of the product.

