

MASTER PUR SO-08

DESCRIPTION

Two component polyurethane system for spray foam insulation (thermal and acoustic). Low density open cell spray system is applicable for foam sprayed using professional high-pressure machines on various surfaces including walls, roofs etc. The resulting foam must be used where high compression strength is not required. The foam has good adhesion to wood, OSB, metal, bricks etc. Output from one set is around 40-45m³ of foam depending on spraying conditions.

PROPERTIES OF COMPONENTS

	UNIT	MASTERPUR SO-08 polyol	IZOKIM RD-001 isocyanate
Density (25°C)	g/cm ³	1.15	1.23
Viscosity (25°C)	mPa.s	150-170	130-230

FOAM PROPERTIES

	UNIT	VALUES	TEST METHOD
Core density	kg/m ³	8-10	ISO 845
Open cell content	%	>90	ISO 4590
Thermal conductivity	w.m ⁻¹ k ⁻¹	0.034-0.039	ISO 8301
Reaction to fire	class	E	ISO 11925-2
Water absorption	Kg/m2	≤16	EN 1609

PARAMETERS OF THE SYSTEM

Free rise test measurements performed using FOAMAT (ultrasonic testing equipment), A:B ratio 1:1 by volume, mixing time 3 sec, components conditioned at 22°C, rotation speed of the agitator 3000 rpm

	UNIT	VALUE
Start time	sec	5±1
Gel time	sec	8±2
Tack Free Time	sec	11±2
Free Rise Density	kg/m ³	8-10

STORAGE AND SHELF LIFE

	UNIT	MASTER PUR SO-08	IZOKIM RD 001
Storage Temp.	°C	5-20	0-25
Shelf Life	months	6	12

PROCESSING CONDITIONS

- Mixing ratio of the components should be kept same as written on form to achieve optimum foam properties.
- Before application component A must be homogenized with a suitable mechanical mixer for minimum 5-10 minutes. It is important to use either pneumatic mixer recommended by Graco, or a high-speed construction

The information provided herein is, to the best of our current knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control and there are many factors effecting application and processing of our product, we make no guarantee of results, and assume no liability for damages incurred by following these suggestions and using our products. We strongly recommend processors to carry out their own tests and investigations.



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- mixer, but with a special mixing element (3-level lifting wings), then 2-3 min agitation will be enough(see technical videos for details)*
- *The barrels must be 15-20 °C before spraying if they are warmer than 30C the lower temperatures to be applied on the hearers and heating hoses. In the winter season the barrels must be at 25-30 °C (preheated).*
 - *Heating hose temperatures (heaters): at ambient temperature ranging from -5 °C to +15 °C polyol component should be 45-55 °C, isocyanate component 50-60 °C. At the ambient temperature ranging from +15 °C to +30 °C: Polyol 45°C - Isocyanate about 50 °C. The main requirement is to achieve equal pressure between the components by balancing the heating temperatures*
 - *Processing pressure during application recommended to be 90 – 120 Bar*
 - *Relative humidity should be less than 85% and wind speed during application should be less than 30 km/h*
 - *Spray gun must be held with 90° angle*
 - *The thickness of each applied layer should be between 10-15 cm*
 - *The distance from the spray gun to the substrate is recommended to be approx. 80 cm*
 - *Under good weather conditions, the system has a good adhesion to most construction materials (concrete, brick, wood, steel). Surface has to be clean and dry*

SAFETY RECOMMENDATIONS

During application, protective eye wear, gloves, and safety shoes have to be worn. Chemicals should be refrained from contact with skin. In case of contact to skin effected area should be washed with huge amount of water. Refer to Safety Data Sheet for specific safety information

CONTACT INFORMATION

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