KIMSPRAY RS 034-W

kim RIGID
RIGID FOAM SYSTEMS

DESCRIPTION

- 2 Component Polyurethane rigid foam for spray application
- Polyol part contain HFC blowing agent for better insulation properties.
- It is possible to cover insulation foam for huge areas in shorter times by spray foams.
- It allows to insulation of edge and corners which minimize thermal bridges.
- Suitable for many substrates like concrete, wood, brick etc, no primer need for adhesion

COMPONENTS

ITEM	*NAME OF COMPONENT*	*DESCRIPTION*
A	KIMSPRAY RS 034-W	POLYOL MIXTURE
B	IZOKIM RD 001	ISOCYANATE

PHYSICAL AND CHEMICAL PROPERTIES OF COMPONENTS

	UNIT	*STANDART*	*A*	*B*
Density	gr/cm3 (20°C)	ASTM D 891	1,12	1,23
Viscosity	mPa.s (25°C)	ASTM D 4878	380	250
NCO Content	%	ASTM D 5155	-	31,5

REACTION CHARACTERISTICS

MIXING RATIO OF THE COMPONENTS		*%* **(by volume)**
A	KIMSPRAY RS 034-W	100
B	IZOKIM RD 001	100

	UNIT	*VALUE*	*STANDART*
Stirring Time	sec	3	KIMTEKS INTERNAL METHOD
Cream Time	sec	4	KIMTEKS INTERNAL METHOD
Gel Time	sec	9	KIMTEKS INTERNAL METHOD
Rise Time	sec	16	KIMTEKS INTERNAL METHOD
Free Rise Density	kg/m^3	30	KIMTEKS INTERNAL METHOD

Data refer to laboratory tests made with components at 20°C, hand-mixed with mechanical stirrer at 3000 rpm.

Reported values vary depending on processing condition.

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STORAGE AND SAFE USE

Polyurethane components are moisture sensitive. Therefore they must be stored at all times in sealed, closed containers at recommended temperatures
More detailed information about storage, handling and safe use should be obtained from the material safety data sheet.

	UNIT	A	B
Storage Temperature	°C	15-25	15-25
Shelf Life	months	3	6

PROCESSING CONDITIONS

- Mixing ratio of the components should be kept same as written on form to achieve optimum foam properties
- Temperatures of the raw material during application should be between 35 - 50°C, it can be adjusted according to reactivity.
- Component pressure during application might be 60 - 120 bar
- Ambient temperature during application should be between 5 - 40 C. Too cold medium and substrate will effect reactivity and adhesion in negative manner.
- Relative humidity should be less than 85% and wind speed during application should be less than 30 km/h
- The thickness of each applied layer should be between 1 and 4 cm. In order to maintain an adequate dimensional stability, it is not recommended to apply ticker layers.
- 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 constructions materials (concrete, brick, wood, steel). Surface has to be clean dry and, in case of metal substrates, (without dust or grease), If the adhesion is not acceptable under these conditions, a previous treatment like a primer may be necessary.
- It is recommended to check suitability of the system before routine production.

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PHYSICAL PROPERTIES

	UNIT	*VALUE*	*STANDART*	*COMMENTS*
Overall Density	kg/m^3	35	ASTM D 1622	
Core Density	kg/m^3	32	ASTM D 1622	
Compressive Strength	kPa	125	ASTM D 1621	perpendicular to foam rise
Thermal Conductivity	mW/mK	22,1	ASTM C 518	inital values at 24h at 10°C
Closed Cell Content	%	> 90	DIN EN 4590	
Dimensional Changes	%	max 1%	DIN EN 2786	48h at -25°C and +70°C
Flammability		B2	DIN 4102	

Measured values were determined on specimens produced on a laboratory.

Dimension of the specimen: 30 cm X 30 cm X 10 cm

Mixing by a mechanical stirrer at 3000 rpm.

SAFETY CONSIDERATIONS

Firstly, please contact and ask updated material safety data sheet (MSDS) which including information about own handling, safety and disposal needs of the products.
MSDS should be reviewed before handling and using material.

During production, protective eye wear, gloves, safety shoes have to be worn.
Chemical should be refrained from contact with skin. In case of contact to skin affected area should be washed with huge amount of water.

CONTACT INFORMATION

For more information about polyurethane systems in case of need please contact to

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REMARK

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.