

TECHNICAL DATA SHEET

DEFOAM 8023/35

PRODUCT DEFINITION

DEFOAM 8023/35 polyol mixture is used as an adhesive for the production of sandwich panels in continuous system. Polyol mixture contains water, catalysts and other additives. The mixture does not contain HCFC as blowing agent. The production is made by the reaction of this mixture with polymeric diisocyanate. The free rise density of polyurethane foam is 35-40 kg/m³. The product is in B3 class according to DIN 4102 inflammability standard.

PRODUCT COMPONENTS

Polyol Component: DEFOAM 8023/35 contains polyether polyol, polyester polyol, catalyst, water, stabilizer and flame retardant additive.

Isocyanate Component: ISOFOAM contains polymeric methylene diphenyl diisocyanate.

COMPONENT PROPERTIES

	Unit	DEFOAM 8023/35 (POLYOL)	ISOFOAM (PMDI)	Test Method
Sp. Gravity (25°C)	g/cm ³	1,08-1,12	1,20-1,25	DIN 51757
Viscosity (25°C)	mPa·s	1200-1500	150-250	ASTM D 4878-98
OH Number	mg KOH/g	350-450	-	ASTM D 4274-99
NCO Percentage	%	-	30,5-31,5	ASTM 5155-01

COMPONENT RATIO FOR THE REACTION

	Name	Unit	Value
Polyol Component	DEFOAM 8023/35	By Weight	100
Isocyanate Component	ISOFOAM	By Weight	110

APPLICATION CONDITIONS

	Unit	Value
Component Temperatures	°C	20-25
Mould Temperature	°C	35-45

REACTION PROFILE

Component Temperatures= 20°C	Unit	Value	Test Method
Cream Time	Second	15-20	Derkim Method
Gelation Time	Second	30-35	Derkim Method
Tack Free Time	Second	45-55	Derkim Method
Free Rise Density	kg/m ³	35-40	Derkim Method

Tests are laboratory hand-mixed cup tests with mechanical stirrer at 3000 rpm. Ambient temperature is measured as 25°C. Application values will be changed by high pressure and low pressure machine process. Reaction times start by mixing polyol mixture with isocyanate component. Density is free rise density.

HANDLING AND STORAGE

	Unit	DEFOAM 8023/35	ISOFOAM
Storage Time	Month	6	6
Storage Temperature	°C	15-25	15-25

Product components are sensitive to moisture and they must be stored in the original sealed drums. Polyol component must be mixed before use. Isocyanate irritates the respiratory organs, eyes and skin. Inhalation and skin contact can cause allergic reaction. Waste must be disposed of in accordance with the requirements and the environmental legislation.

The information provided herein is true and accurate according to our knowledge and experience. However, in case of the changes of conditions and application methods, nothing in this bulletin is to be taken as a warranty and previous trials are recommended. For further information and assistance, technical support is supplied by our staff and laboratories.