

Technical Data Sheet

Elastospray H 1611/16

Application

PU spray foam system for the production of spray foam for insulation as well as water proof application. The system can be applied on substrate like metal, plywood and concrete. Suitability must be examined by the user prior to commercial use.

Chemical Characteristics

Polyol-Component: mixture of polyols, fire retardants, stabilizer, catalyst, blowing agent HCFC141 b
Iso-Component: polymeric diphenylmethane diisocyanate (IsoPMDI 92140)

Supply

The type of supply for the components will be decided after consultation with our Sales Office.

Storage, Preparation

Polyurethane components are moisture sensitive. Therefore they must be stored at all times in sealed, closed containers. More detailed information should be obtained from the separate data sheet entitled "Information for in-coming material control, storage, material preparation and waste disposal" and from the component data.

Processing

For the processing follow the information provided by our technical adviser.

Possible Hazards

The B-component (Isocyanate) irritates the eyes, respiratory organs and the skin. Sensitisation is possible Through inhalation and skin contact. PMDI is harmful by inhalation. On processing these, take note of the Necessary precautionary measures described in the Material Safety Data Sheets (MSDSs). This applies also for The possible dangers in using the A-component (Polyol) as well as any other components. See also our separate Information sheet "Safety- and Precautionary Measures for the Processing of Polyurethane Systems." Use our Training Programme "Safe Handling of Isocyanate."

Waste Disposal

More detailed information is provided in our country –specific pamphlet.

Consumer articles, medical products

There are national and international laws and regulations to consider if it is intended to produce consumer articles (eg articles that necessitate food or skin contact, toys etc.) or medical objects out of Elastogran's products. Where these do not exist, the current legal requirements of the European Union for consumer articles as well as medical products should be sufficient. Consultation with the Elastogran Sales Office and our Ecology and Product Safety Department is strongly recommended.

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Component Data

Characteristics	Unit	Component A Elastospray H 1611/16	Component B Iso PMDI 92140	Method
Specific Gravity (25°C)	—	1.14 ± 0.02	1.24 ± 0.02	EKPS-01-01
Viscosity (25°C)	Cps	450 ± 100	170 - 250	EKPS-02-01
Storage stability	Days	180	180	

*find below basic mix ratio

Processing Data

Cup test by Bench mixer at 3000 rpm

	Unit	specification	Method
Guide formulation	Component A	Elastospray H 1611/16 (pbw) = 100	
	Component B	Iso PMDI 92140 (pbw) = 100	
Component temperature	°C	20	
Quantity	g	A = 75 B = 75	
Mixing ratio		A : B = 100 : 100	
Stirring time	s	4	
Cream time	s	4 ± 2	EKPS-04-01
Gel time	s	8 ± 2	EKPS-04-01
Tack Free time	s	10 ± 2	EKPS-04-01
Density, free rise	kg/m ³	27.5 ± 0.5	EKPS-04-01

General Advice

It is not known whether this system is equally suitable for all types of sheet metal and primer offered on the market. Therefore, suitability must be examined by the user in each individual case.

Characteristics	Unit	Measured value	Test Method
Measured values were determined on specimens during the product approval/Approved product. Verification of these properties on production plants at user's site under prevailing production conditions is required.			
Density / overall	kg/m ³	40	ASTM D 1622
Closed cell content	%	90	ASTM D 6226
Thermal Conductivity	w/m ² K	0.0210	ASTM C 518
Compressive stress at 10% deformation	kPa	150	ASTM D 1621
Dimensional Stability -20°C for 48 hrs +70°C for 48 hrs	% change in volume	0.48 0.66	ASTM D 2126
Flammability	-	B3	DIN 4102

The data contained in this publication is based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, this data does not relieve processors from carrying out their own investigations and tests; neither does this data imply any guarantee of certain properties, or the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc given herein may change without prior notice and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed. (Date of publication).