Technical Data Sheet

Elastospray 1622/1

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Application

Polyurethane spray foam system (in-situ foam) for the production of rigid foam with closed cells. Applications include thermal insulation and sealing of roofs in industry and industrial plants as well as thermal insulation of storage tanks, containers, cargo ships, agricultural storage and farm buildings and industrial installations. Approved by the building authorities for roofs. Suitability must be examined by the user prior to commercial use.

Chemical Characteristics

Polyol-Component: mixture of polyether-, polyesterpolyol, flame retardant, stabilizer, catalyst, HFC
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 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 (e.g. articles that necessitate food or skin contact, toys etc.) or medical objects out of BASF Polyurethanes GmbH 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 our Sales Office and our Ecology and Product Safety Department is strongly recommended.

Component Data

	Unit	Polyol-Comp	Iso-Comp.	Method
Density (20 °C)	g/cm³	1.18	1.24	G 133-08
Viscosity (20 °C)	mPa·s	370	300	G 133-07
Shelf life	days	90	180	

Processing Data

Cup Test:

	Unit	Value	Method
Component temperature	°C	20	
Quantity	g	A = 39.0 B = 41.0	
Mixing ratio	parts by weight parts by volume	A : B = 100 : 105 A : B = 100 : 100	
Stirring time	s	4	
Cream time	s	5	G 132-01
String time	s	10	G 132-01
Rise time	s	21	G 132-01
Density, free rise	kg/m³	47	G 132-01

Reaction parameters by means of high pressure machine (p = 100 bar, T = 40 °C).

	Unit	Value	Method
Cream time	s	2	
Free rise density	kg/m³	55	

General advice:

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

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Physical Properties

	Unit	Measured value	Method
Measured values were determined on specimens produced on a pilot plant. Verification of these properties on production plants at user's site under prevailing production conditions is required.			
Density / core	kg/m³	55	DIN EN 1602
Compressive strength	N/mm²	0.45	DIN EN 826
Compression	%	5	DIN EN 826
Deformation	%	2.8	DIN EN 1605
Thermal conductivity at 23 °C mean temperature	mW/m·K	20.5	DIN EN 12667 / Hesto
Closed cells	%	96	DIN EN ISO 4590
Flammability	-	B 2 E	DIN 4102, part 1 EN 13501-1
Approval in Germany		Z-23.32-1525	Deutsches Institut für Bautechnik, Berlin

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