

Technical Data Sheet

Elastopor[®] H 1622/8

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Application

An ODP zero polyurethane spray system (in-situ foam) for the production of closed cell rigid foam. The system can be used to insulate and prevent condensation on residential roofing applications. It can also be used to stabilize tiled and slated roofs suffering from nail sickness.

Chemical Characteristics

Polyol-Component: A mixture of polyols, catalysts, stabilisers, flame retardant and HFC blowing agent
Iso-Component: Polmeric diphenylmethane diisocyanate (IsoPMDI 92140)

Supply

Polyol component: approx 200 L – 250kg blue drum
Isocyanate component: approx 200 L – 250kg red drum

Storage, Preparation

Polyurethane components are moisture sensitive. Therefore they must be stored at all times in sealed, closed containers. The A-component (Polyol) must be homogenised by basic stirring before processing. 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. MDI is harmful by inhalation. On processing these, take note of the necessary precautionary measures described in the Material Safety Data Sheets (MSDSs). This also applies to the possible hazards 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.

Processing Equipment

Elastopor[®] H spray foam systems can be processed through all standard two component equipment designed for this purpose. This unit must be capable of maintaining a 1:1 by volume ratio, temperatures between 30 and 60°C using pre-heaters and heated hoses and pressures between 50 and 80 bar (700 – 1200 psi). Self cleaning, impingement mix spray guns are recommended.

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Component Data

	Unit	Polyol-Comp	Iso-Comp.	Method
Density (20°C)	g/cm ³	1.35	1.23	G133-08*
Viscosity (20°C)	mPas	220	220	G133-07*
NCO Content	%		31	G133-06*

* Elastogran methods based on UNE 92120 -1 standard

Processing Data

Cup test by ultrasonic method

	Unit	Value	Method
Component temperature	°C	25	
Mixing ratio	Parts by volume	A : B = 100 : 100	
Stirring time	s	2	
Cream time	s	4 ± 2	Elastogran G 132 - 01
String time	s	7 ± 2	Elastogran G 132 - 01
Free rise density	kg/m ³	34 ± 3	Elastogran G 132 - 01

Physical Properties

	Unit	Value	Method
Density	Kg/m ³	45	UNE EN 1602
Compressive Strength	N/mm ²	0.25	UNE EN 826

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Physical Properties

	Unit	Measured value	Method
Closed cell content	%	> 90	ISO 4590
Thermal conductivity (design value)	W/mk	0.028	UNE 92 202
Dimensional Stability -20° C +70° C 90% RH	%	L B W ≤ 6 ≤ 6 ≤ 2 ≤ 2 ≤ 2 ≤ 0.5	UNE EN 1604
Reaction to fire		M2	UNE 23 727
Spread of flame		Class 1	BS 476 Part 7

The above properties are typical of what can be expected when Elastopor H 1622/8 is processed using recommended procedures. The values above were obtained by foam samples produced in Elastogran's laboratories.

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