

Elastocoat[®] C 6335/101

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Application

2 component polyurea spray elastomer for the protection of various substrates

Chemical Characteristics

Polyol-component: Preparation based on: polyol, catalyst, additives
Iso-Component: Preparation containing: diphenylmethane diisocyanate (MDI) = Iso 136/75

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. The A-component (Polyol) must be homogenized 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.

Possible Hazards

The B-component (Isocyanate) irritates the eyes, respiratory organs and the skin. Sensitization 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 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 BASF 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.

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Component Data

	Unit	Polyol-Comp.	Iso-Comp.	Method
Density (20 °C)	g/cm ³	1,00	1,11	G 133-08
Viscosity (25 °C)	mPa·s	220	800	G 133-07
Shelf life	months	6	6	

Typical Processing Data

Machine Processing

	Unit	Value	Method
Mixing ratio	Parts by weight	100 : 112 (Polyol comp : Iso. comp.)	
	Parts by volume	100 : 100 (Polyol comp : Iso. comp.)	
Geltime*		5 – 7	
Tack free time**	s	20 – 25	
Processing temperature			
Component A	°C	70 – 80	
Component B	°C	70 – 80	
Processing pressure			
Component A	bar	120 – 200	
Component B	bar	120 – 200	

* Measured during application with high pressure spraying equipment under laboratory conditions at 20 °C
 ** Measured during application with high pressure spraying equipment under laboratory conditions at 20 °C with an application thickness of 2 mm on a non insulating substrate


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Typical Physical Properties

	Unit	Value	Method
Density	g/cm ³	1,00	DIN 53 420
Hardness	Shore A	92 – 95	DIN ISO 7619-1
	Shore D	38 – 42	
Fire performance		C _{FL} – s1	EN 13501-1
Tensile strength	N/mm ²	21	DIN 53 504
Elongation at break	%	425	
Tear strength	kN/m	58	DIN 53 515
Water vapour permeability	g mm/(m) ² (24h)	16	DIN 53 122
Methane permeability	cm ³ mm/(m) ² (24h)	50	DIN 53 380
Taber abrasion <small>(Weight loss, thickness ± 4mm, H18 wheel, 1000 gms, 1000 cycles)</small>	mg	140	ASTM D 1044
Volume resistivity	Ωcm	1,2 E+12	ISO 3915
Surface resistivity	Ω	6,8 E+13	IEC 60093

The mechanical properties were measured by use of test specimens which were sprayed with a 2 component machine and stored for 7 days under standard climatic conditions.

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 1119	
BASF Nederland BV, PO Box 287, 5280 AG, Boxtel, the Netherlands	
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1119 – CPD - CE2+003 EN 1504-2 surface protection products coating	
Impact resistance:	Class III
Adhesion strength by pull off test:	≥ 2,0
Capillary absorption and permeability	< 0,1
Resistance to severe chemical attack Aqueous solutions of organic acids up to 10%	Class II
Permeability to CO ₂	> 50
Abrasion resistance	< 3
Permeability to water vapour	Class I
Dangerous substances comply with 5.4	

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