Technical Data Sheet

Elastocoat® C 6335/101

We create chemistry

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Application

2 component polyurea spray elastomer for the protection of various substrates such as concrete bridge decks, steel bridge decks, bridge peers, bridge service ducts and culverts, protected roof specification, including green roof and roof garden specifications (on flat and pitched roofs including those with zero pitch), reservoirs, sewage processing, holding tanks, secondary containment protection,

Chemical Characteristics

Polyol-component: Preparation based on: polyol, catalyst, additives
Iso-Component: Preparation containing: 4,4'-methylenediphenyl diisocyanate; diphenylmethane-4,4'-di-isocyanate) = 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.

Component Data

	Unit	Polyol-Comp.	Iso-Comp.	Method
Density (20 °C)	g/cm³	1,00	1,11	G 133-08
Viscosity (25 °C)	mPa·s	220	800	G 133-07
Shelf life	months	12	12	

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 Component B	 °C °C	 70 – 80 70 – 80	
Processing pressure Component A Component B	 bar bar	 120 – 200 120 – 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

Typical Physical Properties

	Unit	Value	Method
Density	g/cm³	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/mm²	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	cm³ mm/(m) ² (24h)	50	DIN 53 380
Taber abrasion (Weight loss, thickness ± 4mm, H18 wheel, 1000 gms, 1000 cycles	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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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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