

Biresin® U1305

Elastomeric Casting resin for mould making, Shore A 89

Areas of Application

- Coating of wear stressed surfaces in machine, container and automotive construction
- Manufacture of seals and gaskets, elastic supports and moulds
- Encapsulation of sensitive instruments for protection against mechanical and water influence
- Encapsulation of electronic components
- Adhesive for spall liners in armoured vehicles

Product Benefits

- Good mixable by hand or with mechanical stirrer
- Good tensile strength and elasticity
- High tensile strength and elongation at break
- Very low shrinkage
- High abrasion resistance
- Casting thickness 40 up to 50 mm
- Acceleration with **Biresin® HC 586** possible (for more informations see Product Data Sheet)
- Dyeable with **Biresin® Farbpasten**

Description

- Basis Two-component-PUR-system
- Resin **Biresin® U1305**, isocyanate prepolymer, colourless-transparent, unfilled
- Hardener **Biresin® U1305**, polyole, beige and black, unfilled

Processing Data

Processing Data		Resin	Hardener
Individual components		Biresin® U1305	Biresin® U1305
Viscosity, 25°C	mPas	~ 4,200	~ 600
Density	g /ml	1.14	1.03
Mixing ratio resin to hardener	in parts by weight	100	60
		Mixture	
Mixed viscosity, 25°C	mPas	~ 2,300	
Potlife, 500 g, RT	min	15 - 20	
Demoulding time, RT	h	10 - 16	
Curing time, RT	d	7	

Physical Data (approx. values)

Biresin® U1305 resin			with hardener	Biresin® U1305	
Colour				cream-white and black	
Density	ISO 1183	g/cm³		1.2	
Shore hardness	ISO 868	-		A 89	
Tear resistance	ISO 34	N/mm		27	
Tensile strength	ISO 527	MPa		25	
Elongation at break	ISO 527	%		300	
Linear shrinkage	internal	%		0.1	
Abrasion resistance	ISO 4649	mm³		75	

Packaging

Working packages	Biresin® U1305 A+B Pack, beige and black	6 x 1 kg net resin + 6 x 0,6 kg net hardener in a box
Individual components	Biresin® U1305 resin	200 kg; 20 kg; 10 kg net
	Biresin® U1305 hardener, beige	12 kg; 6 kg net
	Biresin® U1305 hardener, black	12 kg net



Processing

- The material, processing and mould temperature must be from 18 to 25°C.
- The hardener component must be mixed thoroughly before use.
- It is possible to add Biresin® Farbpaste to the hardener component before processing if required.
- Pay attention to dry conditions and dry mould surfaces while processing.
- The resin and hardener components are to be mixed thoroughly and poured immediately into previously released moulds (e. g. with Sika® Trennmittel 810 or 815 Quick resp. Sika® Trennwachs 818, for more information see Product Data Sheet).
- Porous surfaces (wood, gypsum) have to be well sealed before processing.
- For the application as adhesive adhesion tests with the bonding partner are recommended.

Storage

- Minimum shelf life is 12 month under room conditions (18 - 25°C), when stored in original un-opened containers.
- After prolonged storage at low temperature, crystallisation of components may occur. This is easily removed by warming up for a sufficient time to a maximum of 70°C. Allow to cool to room temperature before use.
- Containers must be closed tightly immediately after use to prevent moisture ingress. The residual material needs to be used up as soon as possible.

Health and Safety Information

For information and advice on the safe handling and storage of products, users should refer to the current Safety Data Sheet containing physical, ecological, toxicological and other safety related data.

Disposal considerations

Product Recommendations: Must be disposed of in a special waste disposal unit in accordance with the corresponding regulations.

Packaging Recommendations: Completely emptied packagings can be given for recycling. Packaging that cannot be cleaned should be disposed of as product waste.

Value Bases

All technical data stated in this Product Data Sheet are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

Legal Notice

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Further information available at:

Sika Deutschland GmbH
Subsidiary Bad Urach
Stuttgarter Str. 139
D - 72574 Bad Urach
Germany

Tel: +49 (0) 7125 940 492
Fax: +49 (0) 7125 940 401
Email: tooling@de.sika.com
Internet: www.sika.com

