

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

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 Technical 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		Resin	Hardener
Individual components		Biresin® U1305	Biresin® U1305
Viscosity, 25°C	mPas	approx. 4,200	approx. 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	approx. 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

Processing

- The material temperature must be 18 - 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 Technical Data Sheet).
- Porous surfaces (wood, gypsum) have to be well sealed before processing.

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.

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Ideeën Krijgen Vorm

Distributeur voor Nederland, België en Luxemburg: Scabro Composites

Vliegveld Valkenburg Wassenaarseweg 75-3265 NL - 2223 LA Katwijk The Netherlands
Tel: +31 (0) 71 4017246 Fax: +31 (0) 84 7402572 Email: info@scabro.com www.scabro.com