Tooling & Composites

Product Data Sheet
Version 10 / 2013

Biresin® CR132 with Biresin® CH122-9 hardener
Composite resin system

Areas of Application
- For wet lay-up processing
- Specially for applications when higher temperature resistance is required

Product Benefits
- Good impregnation and good non draining properties due to optimized mixed viscosity
- Glass transition temperatures up to 160°C dependent on curing conditions
- Long potlife

Description
- Basis: Two-component-epoxy-system
- Resin (A): **Biresin® CR132**, epoxy resin, translucent
- Hardener (B): **Biresin® CH122-9**, amine, colourless to yellowish

Physical Data		Resin (A)	Hardener (B)
Individual Components		**Biresin® CR132**	**Biresin® CH122-9**
Viscosity, 25°C	mPas	1.800	120
Density, 25°C	g/ml	1,14	0,95
Mixing ratio	in pbw	100	38
		Mixture	
Potlife, 100 g / RT, approx. values	h	8	
Mixed viscosity, 25°C, approx. values	mPas	940	

Mechanical Data, neat resin specimen: approx. values after 8 h / 140°C			
Biresin® CR132 resin (A)	with hardener (B)		**Biresin® CH122-9**
Density	ISO 1183	g/cm³	1,13
Flexural E-Modulus	ISO 178	MPa	2.600
Tensile E-Modulus	ISO 527	MPa	2.450
Flexural strength	ISO 178	MPa	118
Compressive strength	ISO 604	MPa	130
Tensile strength	ISO 527	MPa	68
Elongation at break	ISO 527	%	3,9
Impact resistance	ISO 179	kJ/m²	25

Processing
- The material and processing temperatures should be from 18 to 35°C.
- To clean brushes or tools immediately Sika Reinigungsmittel 5 is recommended.
- Additional informations are available in “Processing Instructions for Composite Resins”.

Thermal data of neat resin specimen			
Biresin® CR132 resin (A)			with **Biresin® CH122-9** hardener (B)
Heat distortion temperature	ISO 75A	°C	158*
	ISO 75B	°C	159*
	ISO 75C	°C	126*
Glass transition temperature	ISO 11357	°C	162*

* values after post curing: 8 h / 140°C

Packaging

Individual components	**Biresin® CR132** resin (A)	1,000 kg; 200 kg; 10 kg net
	Biresin® CH122-9 hardener (B)	900 kg; 180 kg; 20 kg; 5.7 kg; 4 kg net

Storage

- Minimum shelf life of Biresin® CR132 resin (A) is 24 month and of Biresin® CH122-9 hardener (B) is 12 month under room conditions (18 - 25°C), when stored in original unopened containers.
- After prolonged storage at low temperature, crystallisation of resin may occur. This is easily removed by warming up for a sufficient time to 50-60°C.
- Containers must be closed tightly immediately after use. The residual material needs to be used up as soon as possible.

Health and Safety Information

For information and advice on the safe handling, storage and disposal of chemical products, users shall refer to the most recent Safety Data Sheet (SDS) containing physical, ecological, toxicological and other safetyrelated 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

Further information available at:

Sika Deutschland GmbH

Kornwestheimer Str. 103-107
D - 70439 Stuttgart
Germany

Tel: +49 (0) 711 8009 0
Fax: +49 (0) 711 8009 321
Email: tooling@de.sika.com
Internet: www.sika.com