

Biresin® CR122 with Biresin® CH125-1 hardener
Composite resin system**Areas of Application**

- For wet lay-up processing
- Repairing of boats (GRP, CRP, wood, aluminium, steel)

Product Benefits

- Optimized processing properties
- Good impregnation and good non draining properties due to an optimized mixed viscosity
- High mechanical properties
- Short processing and curing time particularly suitable for small repairs

Description

- Basis Two-component-epoxy-system
- Resin (A) **Biresin® CR122**, epoxy resin, translucent
- Hardener (B) **Biresin® CH125-1**, amine, colourless to yellowish

Physical Data		Resin (A)	Hardener (B)
Individual Components		Biresin® CR122	Biresin® CH125-1
Viscosity, 25°C	mPas	850	20
Density, 25°C	g/ml	1.17	0.98
Mixing ratio	in parts by weight	100	30
		Mixture	
Potlife, 100 g / RT, approx. values	min	15	
Mixed viscosity, 25°C, approx. values	mPas	300	

Mechanical Data, neat resin specimen: approx. values

Biresin® CR122 resin (A)			with Biresin® CH125-1 hardener (B)	
Curing Conditions		Time / Temperature	14 d / RT	4 h / 80°C
Density	ISO 1183	g/cm³	1.18	1.19
Shore hardness	ISO 868	-	D85	D85
Flexural E-Modulus	ISO 178	MPa	3.100	2.700
Tensile E-Modulus	ISO 527	MPa	3.050	2.550
Flexural strength	ISO 178	MPa	100	105
Compressive strength	ISO 604	MPa	85	91
Tensile strength	ISO 527	MPa	70	76
Elongation at break	ISO 527	%	2.8	6.3
Impact resistance	ISO 179	kJ/m²	70	109

Processing

- The material and processing temperatures should be from 18 to 25°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: approx. values

Biresin® CR122 resin (A)		with Biresin® CH125-1 hardener (B)	
Curing conditions	Time / Temperature	14 d / RT	4 h / 80°C
Heat distortion temperature	ISO 75B °C	52	88
	ISO 75C °C	50	79
Glass transition temperature	ISO 11357 °C	56	92

Packaging

Individual components	Biresin® CR122 resin (A)	10 kg net
	Biresin® CH125-1 hardener (B)	3 kg net

Storage

- Minimum shelf life of Biresin® CR122 resin (A) is 24 month and of Biresin® CH125-1 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 60-80°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 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

The information, and, in particular, the recommendations relating to the application and end-use of Sika products, are given in good faith based on Sika's current knowledge and experience of the products when properly stored, handled and applied under normal conditions in accordance with Sika's recommendations. In practice, the differences in materials, substrates and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any written recommendations, or from any other advice offered. The user of the product must test the product's suitability for the intended application and purpose. Sika reserves the right to change the properties of its products. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users must always refer to the most recent issue of the local Product Data Sheet for the product concerned, copies of which will be supplied on request.



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: composites@de.sika.com
Internet: www.sika.com

