Tooling & Composites

Temporary Product Data Sheet
Version 06 / 2012

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, tranlucent
- 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

Further information available at:

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