

Biresin® CR122 with Biresin® CH122-1 hardener

Composite resin system

Areas of Application

- For wet lay-up, pultrusion and filament winding processing
- Specially for applications when higher temperature resistance is required

Product Benefits

- Because of optimized mixed viscosity good impregnation and good non draining properties
- Demoulding is possible already after RT curing

Description

- Basis Two-component-epoxy-system
- Resin (A) **Biresin® CR122**, epoxy resin, translucent
- Hardener (B) **Biresin® CH122-1**, amine, colourless to brownish

Physical Data		Resin (A)	Hardener (B)
Individual Components		Biresin® CR122	Biresin® CH122-1
Viscosity, 25°C	mPas	850	< 10
Density, 25°C	g/ml	1.17	0.95
Mixing ratio	in parts by weight	100	30
		Mixture	
Potlife, 100 g / RT, approx. values	min	30	
Mixed viscosity, 25°C, approx. values	mPas	310	

Mechanical Data, neat resin specimen

approx. values after 8 h / 100°C (source: Sika internal)

Biresin® CR122 resin (A)			with Biresin® CH122-1 hardener (B)
Density	ISO 1183	g/cm³	1.17
Shore hardness	ISO 868	-	D 86
Flexural E-Modulus	ISO 178	MPa	2,930
Tensile E-Modulus	ISO 527	MPa	2,924
Flexural strength	ISO 178	MPa	125
Compressive strength	ISO 604	MPa	110
Tensile strength	ISO 527	MPa	86
Elongation at break	ISO 527	%	6,3
Impact resistance	ISO 179	kJ/m²	58

Processing

- The material and processing temperatures should be from 18 to 35°C.
- The option of room temperature precuring before demoulding is provided.
- 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® CR122 resin (A)			with Biresin® CH122-1 hardener (B)	
Heat distortion temperature	ISO 75B	°C	101*	
	ISO 75C	°C	89*	
Glass transition temperature	ISO 11357	°C	103*	

* values after post curing: 8 h / 100°C

Packaging

Individual components	Biresin® CR122 resin (A)	1000 kg; 200 kg; 30 kg; 10 kg net
	Biresin® CH122-1 hardener (B)	3.0 kg net

Storage

- Minimum shelf life of Biresin® CR122 resin (A) is 24 month and of Biresin® CH122-1 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 a maximum of 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.

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