

Biresin® CR83 with Biresin® CH125-1 hardener
Composite resin system**Areas of Application**

- For injection processing

Product Benefits

- Because of low mixed viscosity fast infiltration of dry fabrics and nonwovens
- Glass transition temperatures up to 87°C dependent on curing conditions

Description

- Basis Two-component-epoxy-system
- Resin (A) **Biresin® CR83**, epoxy resin, translucent
- Hardener (B) **Biresin® CH125-1**, amine, colourless to yellowish

Physical Data		Resin (A)	Hardener (B)
Individual Components		Biresin® CR83	Biresin® CH125-1
Viscosity, 25°C	mPas	510	< 10
Density, 25°C	g/ml	1.14	0.98
Mixing ratio	in parts by weight	100	26
		Mixture	
Potlife, 100 g / RT, approx. values	min	27	
Mixed viscosity, RT, approx. values	mPas	240	

Mechanical Data of neat resin specimen

Biresin® CR83 resin (A) with hardener (B)			Biresin® CH125-1	
Curing conditions			14d RT	2 h 100°C
Shore hardness	ISO 868	-	D 83	D 84
Flexural E-Modulus	ISO 178	MPa	3,300	2,550
Tensile E-Modulus	ISO 527	MPa	3,100	2,400
Flexural strength	ISO 178	MPa	102	95
Tensile strength	ISO 527	MPa	47	71
Elongation at break	ISO 527	%	1.5	6.4
Impact resistance	ISO 179	kJ/m²	46	108

Processing

- To clean brushes or tools immediately Sika Reinigungsmittel 5 is recommended.
- Additional informations are available in "Processing Instructions for Composite Resins".

Packaging

Individual components	Biresin® CR83 resin (A)	200 kg; 10 kg net
	Biresin® CH125-1 hardener (B)	180 kg; 3 kg net

Thermal Data of neat resin specimen				
Biresin® CR83 resin (A)		with hardener (B)	Biresin® CH125-1	
Curing conditions		time	14d	2 h
		temperature	RT	100°C
Heat distortion temperature	ISO 75B	°C	56	87
	ISO 75C	°C	52	74
Glass transition temperature	ISO 11357	°C	58	87

Storage

- Minimum shelf life of Biresin® CR83 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 crystallisation of resin may occur. This is easily removed by warming up for a sufficient time to 60-70°C.
- 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, 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.

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