

Biresin® CR132

Composite resin system

Areas of Application

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

Product Benefits

- Good impregnation and good non draining properties due to optimized mixed viscosity
- Glass transition temperatures up to 135°C dependent on curing conditions

Description

- Basis Two-component-epoxy-system
- Resin (A) **Biresin® CR132**, epoxy resin, translucent
- Hardener (B) **Biresin® CH132-2**, amine, blue
- Hardener (B) **Biresin® CH132-5**, amine, blue
- Hardener (B) **Biresin® CH132-7**, amine, blue

Physical Data		Resin (A)		Hardener (B)	
Individual Components		Biresin® CR132	Biresin® CH132-2	Biresin® CH132-5	Biresin® CH132-7
Viscosity, 25°C	mPas	1,800	< 10	< 10	20
Density, 25°C	g/ml	1.14	0.95	0.93	0.93
Mixing ratio	in parts by weight	100	28	28	32
		Mixture			
Potlife, 100 g / RT, approx. values	min	60	150	210	
Mixed viscosity, 25°C, approx. values	mPas	360	550	550	

Mechanical Data, neat resin specimen at different post curing conditions

Biresin® CR132 resin (A)		with hardener (B)	Biresin® CH132-2	Biresin® CH132-5	Biresin® CH132-7
Shore hardness	ISO 868	-	D 86	D 85	D 86
Flexural E-Modulus	ISO 178	MPa	2,700	2,600	2,700
Tensile E-Modulus	ISO 527	MPa	2,650	2,700	2,450
Flexural strength	ISO 178	MPa	123	118	115
Tensile strength	ISO 527	MPa	79	88	78
Elongation at break	ISO 527	%	5.3	6.2	5.7

after post curing:
8 h / 140°Cafter post curing:
12 h / 125°Cafter post curing:
8 h / 125°C

Thermal Data, neat resin specimen (approx. values after post curing)

Biresin® CR132 resin (A)		with hardener (B)	Biresin® CH132-2	Biresin® CH132-5	Biresin® CH132-7
Heat distortion temperature	ISO 75A	°C	123	136	130
Glass transition temperature	ISO 11357	°C	130	135	135

after post curing:
8 h / 140°Cafter post curing:
12 h / 125°Cafter post curing:
8 h / 125°C

Packaging

Individual components	Biresin® CR132 resin (A)	1000 kg; 200 kg; 10 kg net
	Biresin® CH132-2 hardener (B)	2.8 kg net
	Biresin® CH132-5 hardener (B)	900 kg; 180 kg; 2.8 kg net
	Biresin® CH132-7 hardener (B)	180 kg; 3.2 kg net

Processing

- The material and processing temperatures should be 18 - 35°C.
- Before demoulding precuring of at least 2 h at 60°C is recommended.
- To clean brushes or tools immediately Sika Reinigungsmittel 5 is recommended.
- Additional information are available in "Processing instructions for Composite Resins".

Storage

- Minimum shelf life of Biresin® CR132 resin (A) is 24 month and of Biresin® CH132-2 hardener (B), CH132-5 hardener (B) and CH132-7 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 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

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