

PRODUCT DATA SHEET

SikaBiresin® CR132

Composite resin system for hand lay-up process with T_g up to 135 °C

TYPICAL PRODUCT DATA (FURTHER VALUES SEE SAFETY DATA SHEET)

Properties	Component A SikaBiresin® CR132	Component B SikaBiresin® CH132-2	Component B SikaBiresin® CH132-5	Component B SikaBiresin® CH132-7
Chemical base	Epoxy resin	Amine hardener	Amine hardener	Amine hardener
Color	Translucent	Blue	Blue	Blue
Density	1.14 kg/l	0.95 kg/l	0.93 kg/l	0.93 kg/l
	cured	1.16 kg/l	1.15 kg/l	1.15 kg/l
Mixing ratio	by weight	100 : 28	100 : 28	100 : 32
	by volume	100 : 34	100 : 34	100 : 39
Viscosity (CQP029-4)	1900 mPa·s	10 mPa·s	20 mPa·s	30 mPa·s
	mixed	360 mPa·s	600 mPa·s	550 mPa·s
Pot life (CQP021-3 / Gel Timer TECAM)		60 min.	150 min.	210 min.
Curing conditions	8 hours	125 °C	125 °C	125 °C
Tensile strength (CQP036-2 / ISO 527)		83 MPa	77 MPa	78 MPa
Tensile modulus (CQP036-2 / ISO 527)		2700 MPa	2650 MPa	2450 MPa
Tensile elongation (CQP036-2 / ISO 527)		6.6 %	4.6 %	5.7 %
Flexural strength (CQP027-2 / ISO 178)		125 MPa	115 MPa	114 MPa
Flexural modulus (CQP027-2 / ISO 178)		2750 MPa	2750 MPa	2700 MPa
Shore D hardness (CQP023-1 / ISO 868)		87	87	87
Impact resistance (CQP038-2 / ISO 179)		47 kJ/m ²	32 kJ/m ²	33 kJ/m ²
Glass transition temperature (CQP301-5 / ISO 11357)		130 °C	135 °C	135 °C
Heat deflection temperature (CQP030-1 / ISO 75A)		118 °C	136 °C	130 °C
Shelf life	24 months	12 months	12 months	12 months

CQP = Corporate Quality Procedure

DESCRIPTION

SikaBiresin® CR132 is an epoxy resin system suitable for the production of high performance fiber reinforced composite components and molds in hand lay-up where a high thermal resistance of up to 135 °C is required.

PRODUCT BENEFITS

- Good impregnation of dry fabrics and non-draining properties
- T_g up to 135 °C
- Three hardeners (B) give a wide range of processing times
- Hardeners (B) are pigmented blue to assist in mixing and process control

AREAS OF APPLICATION

SikaBiresin® CR132 is especially suited to the hand lay-up process and can be used for the production of general industrial composites components as well as resin system for mold making.

This product is suitable for experienced professional users only. Tests under actual processing conditions and with additional materials such as fibers and release agents must be performed to proof material compatibility.

METHOD OF APPLICATION

Mixing process

The components must be mixed homogeneously by using the common mixing techniques for composite resins. To get full performance, the indicated mixing ratio must be respected precisely.

The temperature of the mixture has a direct influence on the viscosity and pot life of the resin system.

Note: Release agents or other additives can influence the material properties and performance.

Application

The resin system is optimized for processing temperatures between 18 °C – 25 °C. Consider the change in processing parameters if the resin system is processed at different temperatures. The curing must be performed at temperature ≥ 18 °C.

Prior to application, check both components for crystallization. The crystallization process can be reversed by heating the product to 60 °C – 70 °C until the crystals are no longer visible.

Containers must be closed tightly immediately after each use to prevent moisture ingress.

Postcuring

Mechanical and thermal values of the laminated part depend on various factors, such as laminate thickness, fiber volume content, reactivity of the resin system as well as chosen curing cycle.

For information concerning suitable curing cycles consult the General Guideline for Composite Resins.

Produced parts must undergo a pre-curing of at least 2 hours at 40 °C before removing from the mold, independently which hardener has been used.

Removal

Uncured SikaBiresin® CR132 can be removed from tools and equipment with Sika® Reinigungsmittel 5 or another suitable solvent. Once cured, the material can only be removed mechanically. Hands and exposed skin shall be washed immediately using industrial hand cleaner and water.

Do not use solvents on skin.

STORAGE CONDITIONS

All components must be stored between 15 °C – 30 °C.

Prior to use check the material for homogeneity and crystallization and make sure to temper it to processing temperature.

FURTHER INFORMATION

The information herein is offered for general guidance only. Advice on specific applications is available on request from the Technical Department of Sika Industry.

Copies of the following publications are available on request:

- Safety Data Sheets
- General Guideline
For Composite Resins

PACKAGING INFORMATION

SikaBiresin® CR132 (A)

Pail	10 kg
Drum	200 kg
IBC	1000 kg

SikaBiresin® CH132-2 (B)

Can	2.8 kg
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SikaBiresin® CH132-5 (B)

Can	2.8 kg
Drum	180 kg
IBC	900 kg

SikaBiresin® CH132-7 (B)

Can	3.2 kg
Drum	180 kg

BASIS OF PRODUCT DATA

All technical data stated in this document are based on laboratory tests. Actual measured data may vary due to circumstances beyond our control.

HEALTH AND SAFETY INFORMATION

For information and advice regarding transportation, handling, storage and disposal of chemical products, users shall refer to the actual Safety Data Sheets containing physical, ecological, toxicological and other safety-related data.

DISCLAIMER

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.

PRODUCT DATA SHEET

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