SikaBiresin® CR87
BIO-SOURCED

SikaBiresin® CR87
EPOXY SYSTEM OPTIMIZED FOR MORE SUSTAINABLE COMPOSITES

SikaBiresin® CR87 is a system developed for the production of composite parts by infusion, VARTM or RTM methods. The selection of the right raw materials has enabled the significant increase of bio-based carbon content without compromising on the performance.

Thanks to its low mixing viscosity, wide range of processing times and great mechanical performance, this system meets the expectations of producers of large, high-performance parts. This bio-sourced system has been tested according to ISO 16620-2 standard by an approved external laboratory.

- Excellent wetting of fibres and reinforcement
- Plant-based carbon content of 38% (resin)
- Complete system, pot-life from 75 to 400 min.
- Usable for the infusion of large dimension parts

BUILDING TRUST

SikaBiresin® CR87

DESCRIPTION

SikaBiresin® CR87 is an epoxy resin system with a bio-based carbon content of 38 % (resin). It is designed for the production of high-performance fiber reinforced composite parts with thermal properties up to 87 °C by vacuum infusion process.

PRODUCT BENEFITS

- Bio-sourced system
- Excellent wetting ability
- Wide range of processing times

AREAS OF APPLICATION

SikaBiresin® CR87 is especially suited to infusion of large composite parts due to its low viscosity. It is designed for marine and wind applications, but can also be used for general industrial composites.

PHYSICAL PROPERTIES	RESIN (A)	HARDENERS (B)		
Component	SikaBiresin® CR87	SikaBiresin® CH87-2	SikaBiresin® CH87-6	SikaBiresin® CH87-10
Viscosity, 25°C, mPa.s	~600	~40	~20	~10
Density, 25°C, g/ml	1.13	0.95	0.94	0.93
Mixing ratio in Weight	100	28		
		Mixing		
Potlife, 100 ml, 25°C		80	180	400
Mix viscosity, 25°C, mPa.s		260	220	200

MECHANICAL PROPERTIES, SAMPLES OF NEAT RESIN, AFTER APPROPRIATE CURING CYCLE, 8 h at 80°C				
SikaBiresin® CR87		SikaBiresin® CH87-2	SikaBiresin® CH87-6	SikaBiresin® CH87-10
Final hardness (Shore D)	ISO 868	83	83	83
Tensile strength (MPa)	ISO 527	80	75	75
Elongation at break (%)	ISO 527	5.0	5.0	5.0
Tensile modulus (MPa)	ISO 527	2800	2700	2650

THERMAL PROPERTIES, SAMPLES OF NEAT RESIN, AFTER APPROPRIATE CURING CYCLE, 8 h at 80°C				
SikaBiresin® CR87		SikaBiresin® CH87-2	SikaBiresin® CH87-6	SikaBiresin® CH87-10
Glass transtion temperature	ISO 11357	85	84	87
Heat Deflection Temperature (HDT A)	ISO 75	75	75	75

BIOBASED 20–50 % DIN Geprüft

Sika Services AG / Industry / SikaBiresin® CR 87 / 02.2024

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