

PRODUCT DATA SHEET

SikaBiresin[®] MC80

MODEL PASTE FOR ADDITIVE MANUFACTURING

APPLICATIONS

- Manufacturing of contour shaped machinable blanks for design, styling or cubing models and mold making.

MAIN PROPERTIES

- Very dense, smooth surface
- Easy to seal and paintable
- Good mechanical workability

DESCRIPTION

Base	2K-PUR-System, reddish brown
Component A	SikaBiresin[®] MC80
Component B	SikaBiresin[®] MC100

PHYSICAL PROPERTIES

		Resin (A)	Hardener (B)
Components		SikaBiresin[®] MC80	SikaBiresin[®] MC100
Viscosity	mPas	30.000	175
Density	g/cm ³	0,69	1.23
Mixing ratio A : B	in parts by weight	100	60
		Mixture	
Colour		reddish brown	
Viscosity	mPas	viscous paste	
Potlife	sec	170	

MECHANICAL PROPERTIES

approx. values

			SikaBiresin® MC80
Density	ISO 2781	g/cm ³	0.85
Shore hardness	ISO 868	-	D 77
Flexural modulus	ISO 178	MPa	2400
Flexural strength	ISO 178	MPa	55
Impact resistance	ISO 179	kJ/m ²	10
Compressive strength	ISO 604	MPa	60

THERMAL AND SPECIFIC PROPERTIES

approx. values

			SikaBiresin® MC80
Glass transition temperature (T _g)	ISO 11359	°C	70
Linear thermal expansion coefficient α_T	ISO 11359	10 ⁻⁶ K ⁻¹	55

PACKAGING UNITS

- | | |
|----------------------------------|--------------------------|
| ■ Component A, SikaBiresin® MC80 | 15 kg / 120 kg / 600 kg |
| ■ Component B, SikaBiresin® M100 | 20 kg / 225 kg / 1000 kg |

STORAGE CONDITIONS

Shelf life	■ Component (A), SikaBiresin® MC80	12 months
	■ Component (B), SikaBiresin® M100	12 months
Storage temperature	■ Component (A), SikaBiresin® MC80	18 – 25 °C
	■ Component (B), SikaBiresin® M100	18 – 25 °C
Opened packagings	■ Containers must be closed tightly immediately after use to prevent moisture ingress. ■ The residual material needs to be used up as soon as possible.	

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 Advanced Resins. Copies of the following publications are available on request: Safety Data Sheets

BASE 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.

LEGAL NOTICE

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.

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June 2023, Version 03

Sika Advanced Resins