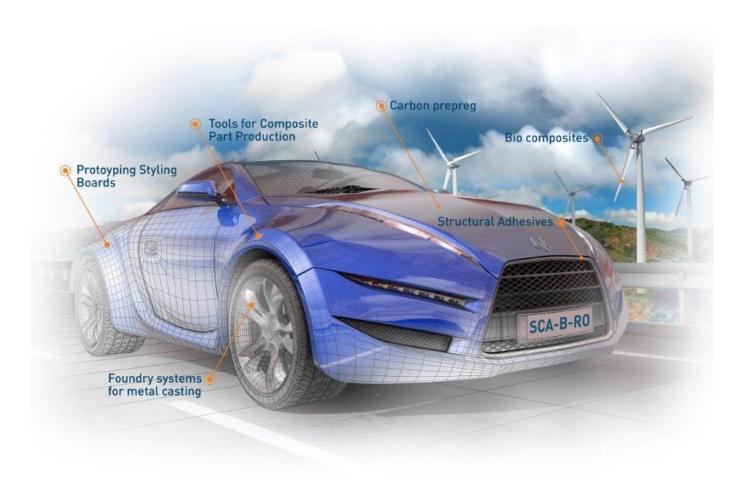




TECHNICAL DATASHEET

RAKU-TOOL EC-2401 Epoxy



MALLENBOUW | COMPOSIETEN | LIJMEN

Scabro BV | Blokmakerstraat 9 | 2222 AD Katwijk | Holland | +31 70 401 72 46 | scabro.com

RAKU-TOOL® EC-2401 / EH-2902-1



Epoxy Casting System

Two component Epoxy

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PC - Rev.-Status: 01- 2015/04/20

Page 1 of 2

Key Properties

- Universally applicable
- · Low sedimentation
- High temperature resistance after post-cure
- · Easily workable
- · Good reproduction of detail

Applications

- Galvano bath models
- Foundry patterns
- Direct casting (negatives)
- Jigs and fixtures
- · Working models for the ceramics industry

Processing Properties

			EC-2401	EH-2902-1
Color	visual		Beige	Brownish
Mix ratio		Pb weight	100	20
Density	ISO 1183	g/cm ³	ca. 1.75	ca. 0.96
Viscosity at 25 °C	DIN 53019-1	mPa·s	90,000-120,000	1,000-2,000

			EC-2401 / EH-2902-1
Mixed viscosity	DIN 53019-1	mPa·s	40,000-60,000
Pot life at 25 °C	1000 ml	min	140-150
Max. Layer thickness		mm	40
Minimum curing time at 25 °C		h	18

Cured / Mechanical Properties

			EC-2401 / EH-2902-1	
			Cure: 7 days at RT or 14h at 40°C	Cure: 14h at 70°C
Aspect	visual		Beige	Beige
Density	ISO 1183	g/cm ³	ca. 1.6	ca. 1.6
Shore hardness D	ISO 868		85-90	85-90
Coefficient of thermal expansion	ISO 11359	10 ⁻⁶ K ⁻¹	50-55	55-60
Deflection temperature, HDT	ISO 75	°C	50-55	83-88
Compressive strength	ISO 604	MPa	100-105	110-115
Compressive modulus	ISO 604	MPa	5400-5900	5000-6000
Flexural strength	ISO 178	MPa	58-63	75-80
Flexural modulus	ISO 178	MPa	5200-5700	5000-6000

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Page 2 of 2

Processing

The processing and material temperature should be between 20-25 °C.

Mix the two components thoroughly in the ratio indicated. Degassing is recommended.

The mechanical properties and temperature resistance are only obtained through the post cure according to the recommended cure schedule.

Recommended cure schedule

After initial curing at room temperature for 12-24 hours depending on the size and thickness of the parts, the parts must be heated up to 70°C in steps and post cured for 14 hours at 70°C, then cooled down gradually. The curing time at room temperature, heating and cooling rate depend on the size and thickness of the parts.

Packaging

RAKU-TOOL® EC-2401	6 x 1.4 kg / 10 kg
RAKU-TOOL® EH-2902-1	2.02 kg / 22 kg

Storage

Original containers should be kept tightly sealed and stored at ambient temperatures (15°C to 30°C). If properly stored the products have the shelf-life indicated on the product label. Partly used containers should always be sealed appropriately and used up as soon as possible.

Handling Precautions

Good workplace ventilation is to be ensured during processing. At the same time, the employer's liability insurance association's industrial hygiene safety regulations regarding the handling of reaction resins and their hardeners are to be observed. Please take heed of the appropriate safety data sheets.

RAMPF Tooling Solutions GmbH & Co. KG Robert-Bosch-Str. 8-10 | D-72661 Grafenberg T +49.71 23. 93 42-1600 F +49.71 23. 93 42-1666 E tooling.solutions@rampf-gruppe.de