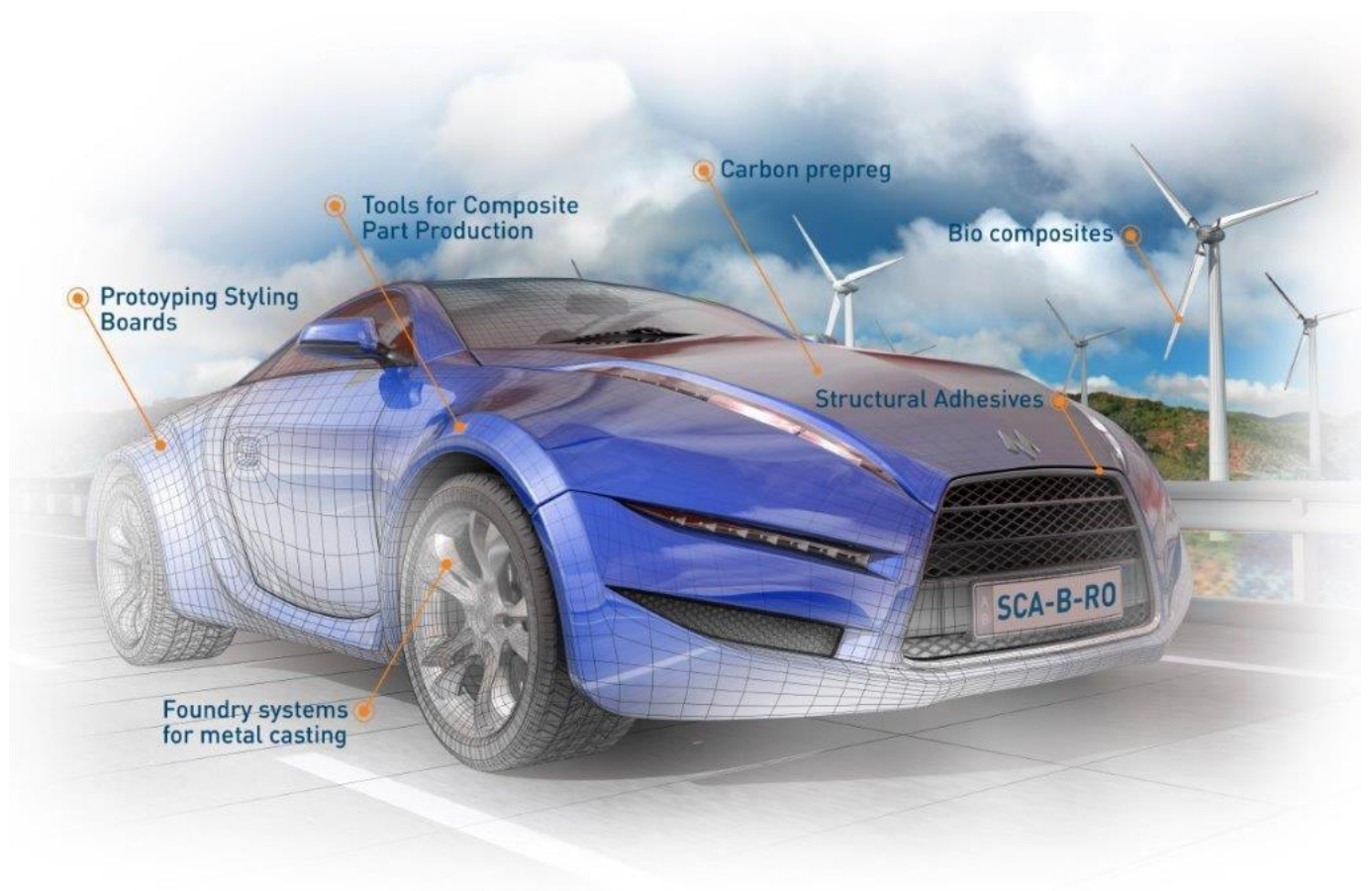


TECHNICAL DATASHEET

RAKU-TOOL EI-2500

Epoxy



MALLENBOUW | COMPOSITEN | LIJMEN

Epoxy Infusion System

Temperature resistant

Key Properties

- Room temperature curing
- Fast cure
- Good wetting properties
- Temperature resistant up to 110°C

Applications

- RTM
- Resin Infusion

Processing Properties

			EI-2500	EH-2953-1
Color	visual		Transparent	Yellowish
Mix ratio		parts by weight	100	30
		parts by volume	100	35
Density	ISO 1183	g/cm ³	ca. 1.17	ca. 0.95
Viscosity at 25 °C	DIN 53019-1	mPa·s	800 - 1300	30 - 60

			EI-2500 EH-2953-1
Mix viscosity at 25 °C	DIN 53019-1	mPa·s	500 – 800
Pot life at 25 °C	500 ml	min	60 – 80
Max. layer thickness		mm	8
Demold time		h	16

Cured / Mechanical Properties

Cure: 16h at RT + 14h at 100°C			EI-2500 EH-2953-1
Appearance	visual		Clear
Density	ISO 1183	g/cm ³	ca. 1.1
Deflection temperature, HDT	ISO 75	°C	110-115
Glass Transition Temperature, Tg	DSC	°C	110-115
Flexural strength	ISO 178	MPa	115-125
Flexural modulus	ISO 178	MPa	2500-3000

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 100°C in steps and post cured for 14 hours at 100°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® EI-2500	20 kg / 200 kg
RAKU-TOOL® EH-2953-1	3 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.