

Main features

- Epoxy resin system
- Pot life adjustable due to different hardeners
- very good impregnation and wetting properties
- AltroGreen EP 9860 contains over 50 % of ingredients based on renewable raw materials
- CO₂ savings of over 410 kg CO₂ per ton (compared to NEUKADUR EP 986)

Applications

- special infusion resin
- production of composites made of glass-, carbon- or aramid fabrics
- general mould and tool making, gauge construction

Properties in the non-crosslinked state (approx. values)

		AltroGreen EP 9860	NEUKADUR Hardener 244	NEUKADUR Hardener 246
Colour		yellowish	amber	amber
Mixing ratio	p.b.w.	100	25	25
Density	g/cm ³	1.1	1.0	1.0
Viscosity (25 °C)	mPa·s	850	100	90

Properties of the mixture (approx. values)

Mixed viscosity (25 °C)	mPa·s		500	450
Pot life (20°C, 500 g)	minutes		40	150
Demouldable	hours		24	30
Density	g/cm ³	DIN 53479	1.1	1.1
Hardness 24h / RT Points	Shore D	DIN 53505	85	83

Mechanical values of the cured product - tempered step by step up to 120°C for 14 h (approx. values)

Modulus in flexure	MPa	DIN 53457	2,500	2,400
Flexural strength	MPa	DIN 53452	100	110
Dimensional stability under heat	Martens °C	DIN 53458	110	100
Glass transition temperature TG	°C	DSC 204 F1 DIN 51005	115	110

*RT = room temperature

How to process the material

Mix resin and hardener in the indicated mixing ratio until the compound is homogeneous. Processing of the material should be effected at temperatures between 10 °C and 30 °C, as far as possible. All common processing methods can be applied. The pot life depends on the kind of hardener used as well as on the ambient temperature.

For release agents, please visit our homepage under <http://www.altropol.de/en/produkte/weitere-produkte/trennmittel>

Form of delivery

AltroGreen EP 9860	on request
NEUKADUR hardener 244	on request
NEUKADUR hardener 246	on request

Storage

We recommend keeping the material in tightly closed original receptacles at temperatures of 20 - 25 °C. When duly stored, the material can be used within the shelf life indicated on the labels (the first 2 digits of the batch number indicate the week, the 3rd digit indicates the year).

Measure of precaution

With the aid of the current safety data sheets, which contain physical, ecological, toxicological and other data relating to safety, the user can inform himself on the safe handling and storage of the products.

Our technical service - in words, in writing or by trials - is given according to the current state of our knowledge. It does however not relieve the customer / user from the duty to check by himself if the products supplied by us are suitable for the intended processes and purposes. Application, use and processing of the products take place beyond our control possibilities and lie therefore exclusively in the area of responsibility of the processor. Any existing property rights of third parties are to be considered. We guarantee the perfect quality of our products in accordance with our general terms and conditions of business. When handling our products you have to observe the legal rules and the rules for the industrial hygiene. As for the rest, we refer to the corresponding safety data sheets.

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