

NEUKADUR EP 14 n.V. mod. 2

Transparent Epoxy Resin

altropol

Main features

- low-viscous
- transparent
- good light stability

Applications

- artistic / decorative applications in connection with
- Hardener 297 (thick layers up to max. 10 mm)
- Hardener 298 (thick layers up to max. 80 mm)
- Hardener 299 (thick layers up to max. 110 mm)
- Hardener 301 (thin layers from 1 - 2 mm)

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

		NEUKADUR EP 14 n.V. mod. 2	NEUKADUR Hardener 301	NEUKADUR Hardener 297	NEUKADUR Hardener 298	NEUKADUR Hardener 299
Colour		transparent	bluish	bluish	bluish	bluish
Mixing ratio	p.b.w.	100	25	25	40	45
Density (20 °C)	g/cm ³	1.1	0.95	0.95	0.95	0.95
Viscosity (20 °C)	mPa·s	800	150	50	180	190

Properties of the mixture (approx. values)

Mixed viscosity (20 °C)	mPa·s		600	500	450	440
Amount	Gramms		100g	500g	2000g	2000g
Pot life 20°C	minutes		70 min	60 min	210 min	420 min
Density	g/cm ³	DIN 53479	1.1	1.1	1.1	1.1
Hardness depending on layer thickness 35mm/ RT ¹⁾ and time 24h	Shore D	DIN 53505	Tack-free = 6h ³⁾	²⁾	²⁾	²⁾
48 h				60	2)	2)
72 h				75	60	50
7 d				80	75	70
65g = 35 mm demouldable after		hours	12 ⁴⁾⁺³⁾	48	72	72

Properties of the cured product (approx. values) 7 days at room temperature

Glass transition temperature TG	°C	DSC 204 F1 DIN 51005	45	45	40	40
Flexural strength	MPa	DIN 53452	63	74	60	45
Flexural strength	n _d		1.55	1.55	1.55	1.55

1) RT = Room temperature

2) not measurable

3) Layer thickness 1 - 2 mm

4) through-hardened after

How to process the material

Mix resin and hardener in the indicated mixing ratio until the compound is homogeneous and process the same at temperatures between 20°C and 25°C.

The pot life is temperature-dependent, and for a batch of 500 g with NEUKADUR Hardener 297 and up to 2000 g with NEUKADUR Hardener 298 and Hardener 299, it is between 60 and 420 minutes at 20 °C.

For the coating field of application we recommend NEUKADUR Hardener 301 with a pot life of 70 minutes with an amount of 100g.

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

Form of delivery

NEUKADUR EP 14 n.V. mod. 2	5 kg	10 kg	200 kg	
NEUKADUR Hardener 297	1.25 kg	2.5 kg	25 kg	180 kg
NEUKADUR Hardener 298	2.0 kg	5 kg	25 kg	180 kg
NEUKADUR Hardener 299	2.5 kg	5 kg	25 kg	200 kg
NEUKADUR Hardener 301	1.25 kg	2.5 kg	25 kg	180 kg

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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