

**Main features**

- epoxy resin system
- hard
- polishable
- high heat stability

**Applications**

- high-gloss surfaces
- general mould and tool making
- vacuum thermoforming moulds

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

		<b>NEUKADUR O-Paste alu</b>	<b>NEUKADUR Hardener T 3</b>	<b>NEUKADUR Hardener BWS</b>
Colour		grey	amber	amber
Mixing ratio	p.b.w.	100	10	10
Density (20 °C)	g/cm <sup>3</sup>	1.60	0.95	0.95
Viscosity (20 °C)	mPa·s	brushable	200	800

**Properties of the mixture (approx. values)**

Mixed viscosity	mPa·s		brushable	brushable
Density	g/cm <sup>3</sup>	DIN 53479	1.5	1.5
Hardness	Shore D	DIN 53505	82	82
Pot life (1000 g)	minutes		30	10
Gel time (20 °C, 1mm)	minutes		100	60
Curing time (20 °C, 1mm)	hours		24	12

**Mechanical values of the cured product after 7 days of storage at RT\* (approx. values)**

Dimensional stability under heat	Martens °C	DIN 53458	90	80
Tensile strength	MPa	DIN 53455	36	30
Elongation at break	%	DIN 53455	0,5	0,6
Modulus in tension	MPa	DIN 53457	5,000	4,000
Flexural strength	MPa	DIN 53452	80	75
Compressive strength	MPa	DIN 53454	115	105
Ball indentation hardness 30"	N/mm <sup>2</sup>	DIN 53456	210	210
Impact strength	kJ/m <sup>2</sup>	EN ISO 179	8	8
Thermal conductivity	W/K • m	DIN 52612	0.8	0.8
Coefficient of linear thermal expansion	10 <sup>-6</sup> K <sup>-1</sup>	VDE	35	35

\*RT = room temperature

**How to process the material**

Prior to mixing, see that resin and hardener are homogenized thoroughly. After having mixed resin and hardener intensively, apply the compound by means of a short-haired brush.

Another layer can be applied as soon as the surface layer has started to gel but is still slightly tacky. This state is temperature-dependent, and at room temperature, you obtain it after approx. 60 to 100 minutes - depending on the hardener used.

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

**Form of delivery**

NEUKADUR O-Paste alu	0.5 kg	1 kg	10 kg	30 kg		
NEUKADUR Hardener T 3	0.05 kg	0,1 kg	1 kg	5 kg	10 kg	30 kg
NEUKADUR Hardener BWS	0.05 kg	0,1 kg	1 kg	5 kg	10 kg	30 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.

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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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