

Main features

- epoxy resin-system
- metal-filled
- highly viscous
- abrasion-resistant
- hard
- high dimensional stability under heat

Applications

- mould making
- metal pressing tools
- vacuum thermoforming tools
- foaming moulds

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

		NEUKADUR O-Paste black	NEUKADUR Hardener T 39	NEUKADUR Hardener O-Paste black
Colour		black	amber	amber
Mixing ratio	p.b.w.	100	5	5
Density (20 °C)	g/cm ³	2.8	0.95	0.95
Viscosity (20 °C)	mPa·s	brushable	150	200

Properties of the mixture (approx. values)

Mixed viscosity	mPa·s			brushable
Pot life (20 °C, 1000 g)	minutes		100	20
Gel time (20 °C, 1 mm)	minutes		200	45
Curing time (20 °C, 1 mm)	hours		22	12
Hardness	Shore D	DIN 53505	85	85
Density	g/cm ³	DIN 53479	2.8	2.8

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

Tensile strength	MPa	DIN 53455	40	55
Elongation at break	%	DIN 53455	9	0.45
Modulus in flexure	MPa	DIN 53457	4,500	6,00
Flexural strength	MPa	DIN 53452	70	90
Compressive strength	MPa	DIN 53454	115	115
Ball indentation hardness 30''	N/mm ²	DIN 53456	250	250
Impact strength	kJ/m ²	EN ISO 179	7	10
Dimensional stability under heat	Martens °C	DIN 53458	130	110
Thermal conductivity	W/K • m	DIN 52612	0.9	0.9
Coefficient of linear thermal expansion	10 ⁻⁶ K ⁻¹	VDE	40	40

*RT = room temperature

How to process the material

Stir up resin component intensively.

This is particularly important when the material has been kept and/or transported at low temperatures. Material and ambient temperature should be approx. 20 °C.

After having mixed resin and hardener thoroughly, apply the compound by means of a short-haired brush.

You can apply another layer as soon as the surface layer has started to gel but is still slightly tacky.

This state is temperature-dependent, and at room temperature it is obtained after approx. 45 minutes and/or 200 minutes depending on the kind of 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 black	0.95 kg*	10 kg
NEUKADUR Hardener T 39	0.05 kg	0.5 kg
NEUKADUR Härter O-Paste schwarz	0.05 kg*	0.5 kg

*minimum order quantity = 10 kits

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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