

Main features

- brushable epoxy resin system
- thixotropic
- hard
- abrasion-resistant
- high dimensional stability under heat

Applications

- metal pressing tools
- general mould and tool making
- foaming moulds
- vacuum thermoforming moulds

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

		NEUKADUR O-Paste 105	NEUKADUR Hardener T 3	NEUKADUR Hardener BWS
Colour		grey	amber	amber
Mixing ratio	p.b.w.	100	10	10
Density (20 °C)	g/cm ³	1.60	0.95	0.95
Viscosity (20 °C)	mPa·s	brushable	200	800

Properties of the mixture (approx. values)

Mixed viscosity (20 °C)	mPa·s		brushable	brushable
Density	g/cm ³	DIN 53479	1.5	1.5
Hardness	Shore D	DIN 53505	87	87
Pot life (1000 g, 20 °C)	minutes		40	25
Gel time (1 mm, 20 °C)	minutes		100	50
Curing time (1 mm, 20 °C)	hours		7	4

Mechanical values after 3 hours of tempering at 120 °C (approx. values)

Dimensional stability under heat	Martens °C	DIN 53458	120	120
Tensile strength	MPa	DIN 53455	50	50
Elongation at break	%	DIN 53455	0.45	0.45
Modulus in tension	MPa	DIN 53457	6,000	6,000
Flexural strength	MPa	DIN 53452	85	85
Compressive strength	MPa	DIN 53454	110	110
Ball indentation hardness 30''	N/mm ²	DIN 53456	220	220
Impact strength	kJ/m ²	EN ISO 179	9	9
Thermal conductivity	W/K·m	DIN 52612	0.85	0.85
Coefficient of linear thermal expansion	10 ⁻⁶ K ⁻¹	VDE	40	40

*RT = room temperature

How to process the material

Prior to mixing, take care 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 shall be applied as soon as the coat has started to gel, but while it is still slightly tacky. This state is temperature-dependent, and at room temperature, it is obtained after approx. 100 minutes (NEUKADUR Hardener T 3) and/or approx. 50 minutes (NEUKADUR Hardener BWS) – depending on the type of hardener used. After application of the second layer, apply coupling paste NEUKADUR KP 105. After that, provide a backfilling of NEUKADUR VG 105.

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

Form of delivery

NEUKADUR O-Paste 105	0.5 kg*	1 kg	10 kg
NEUKADUR Hardener T 3	0.05 kg*	0.1 kg	1 kg
NEUKADUR Hardener BWS	0.05 kg	0.1 kg	1 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.

• 2016-04-26.1 / 4 / LW-W •