

## NEUKADUR O-paste black

<b>Description</b>	NEUKADUR o-paste black is a two component epoxy gelcoat system with high viscosity, enriched with metallic fillers to provide an abrasive, resistant, hard gel-coat with good heat resistance.		
<b>Mixing ratio</b>	100 p.b.w. NEUKADUR o-paste black 5 p.b.w. NEUKADUR hardener o-paste black		
<b>Fields of application</b>	sheet metal working tools, vacuum deep drawing moulds, foaming moulds		
<b>Processing</b>	Mix resin and hardener together at room temperature, stirring thoroughly. Brush a thin coat of the mixture over the surface of the original pattern or mould. Allow to gel at room temperature until almost tack-free. Apply the second gelcoat. Use always a short-bristled brush.		
<b>Pot-life</b>	100 g mixture has a pot-life of 30 - 40 minutes at room temperature.		
<b>Availability</b>	preweighed package		
	NEUKADUR o-paste black	475 g	950 g
	NEUKADUR hardener o-paste black	25 g	50 g
<b>Shelf-life</b>	at 18 - 25 °C and in closed original drums approx. 1 year.		

	<b><u>NEUKADUR o-paste black</u></b>	<b><u>NEUKADUR hardener o-paste black</u></b>
<b><u>Properties of the components</u></b>		
colour	black	amber
density g/cm <sup>3</sup>	2,8 - 2,9	0,95 - 1,0
viscosity mPa·s (20 °C)	spreadable	approx. 200

**Properties of the mixture**

mixing ratio	100 p.b.w.	5 p.b.w.
mixing viscosity (20 °C)		spreadable
pot-life (20 °C) 1000 g	minutes	approx. 20
gel-time (20 °C) 1 mm	minutes	35 - 45
curing-time (20 °C) 1 mm	hours	8 - 14

**Properties of the reaction product-tempered 3 h - 120 °C**

shore-D-hardness	DIN 53505	points	approx. 85
density	DIN 53479	g/cm <sup>3</sup>	approx. 2,8
tensile strength	DIN 53455	N/mm <sup>2</sup>	44 - 55
elongation	DIN 53455	%	0,40 - 0,45
modules of elasticity	DIN 53457	N/mm <sup>2</sup>	approx. 6000
flexural strength	DIN 53452	N/mm <sup>2</sup>	80 - 90
compressive strength	DIN 53454	N/mm <sup>2</sup>	105 - 115
ball indentation hardness 30"	DIN 53456	N/mm <sup>2</sup>	210 - 230
impact strength	DIN 53453	kJ/m <sup>2</sup>	8 - 10
dimensional stability under heat (Martens)	DIN 53458	°C	110 - 120
thermal conductivity	DIN 52612	W/K·m	0,8 - 0,9
coefficient of linear expansion	VDE	10 <sup>-6</sup> K <sup>-1</sup>	35 - 40

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