

NEUKADUR VG F
Epoxy Casting Compound
Mineral-filled

altropol

Main features

- hard
- workable
- medium-viscous

Applications

- production of small patterns in full casting
- backfilling compound for general use

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

		NEUKADUR VG F	NEUKADUR Hardener VG F	NEUKADUR Hardener 179
Colour		black	amber	amber
Mixing ratio	p.b.w.	100	10	10
Density (20 °C)	g/cm ³	1.7	1.00	0.95
Viscosity (20 °C)	mPa·s	15,000	200	170

Properties of the mixture (approx. values)

Mixed viscosity	mPa·s		6,000	5,000
Pot life (1000 g)	minutes		90	120
Curing time (RT)	hours		24	24
Hardness	Shore D	DIN 53505	83	83

Mechanical values of the cured product (approx. values)

Dimensional stability under heat	Martens °C	DIN 53458	50	50
Tensile strength	N/mm ²	DIN 53455	50	50
Elongation at break	%	DIN 53455	0,6	0.6
Modulus in tension	N/mm ²	DIN 53457	10.000	10,000
Flexural strength	N/mm ²	DIN 53452	75	75
Compressive strength	N/mm ²	DIN 53454	110	110
Ball indentation hardness 30"	N/mm ²	DIN 53456	185	185
Impact strength	kJ/m ²	EN ISO 179	3,5	3.5
Thermal conductivity	W/K • m	DIN 52612	0,5	0.5
Coefficient of linear thermal expansion	10 ⁻⁶ K ⁻¹	VDE	33	33
Linear dimensional change	mm/m		0,3	0.3

*RT = room temperature

How to process the material

Before every use, stir up the resin component thoroughly as otherwise the fillers might deposit. Mix in the hardener component with care but intensively to ensure an optimal wetting and to prevent air inclusions. We recommend letting the mixed casting resin compound rest for some minutes before casting it in order to allow the possibly incorporated air to escape.

The pot life is temperature-dependent, and at room temperature, it is approx. 90 minutes with NEUKADUR Hardener VG F and approx. 120 minutes with NEUKADUR Hardener 179 for a batch size of 1000 g.

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Form of delivery

NEUKADUR VG F	1 kg	10 kg
NEUKADUR Hardener VG F	0.1 kg	1 kg
NEUKADUR Hardener 179	0.1 kg	1 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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• www.altropol.de •

• Altropol Kunststoff GmbH • Rudolf-Diesel-Straße 9 - 13 • D-23617 Stockelsdorf • Tel. +49 451-499 60-0 •
• Fax. +49 451-499 60-20 • E - Mail: info@altropol.de •