

Main features

- very low exothermic reaction
- easy to process
- very low shrinkage
- good curing properties

Applications

- casting in high layer thicknesses and volumes
- electrical casting
- universally for all kinds of moulds and patterns

Properties in non-crosslinked state (approx. values)

		NEUKADUR PU 256	NEUKADUR Hardener H 118 V
Colour		neutral	brown
Mixing ratio	p.b.w	100	23
Density	g/cm ³	1.75	1.2
Viscosity	mPa·s	27,000	300

Properties of the mixture and the cured product 20 °C (approx. values)

Colour			beige
Mixed viscosity	mPa·s		7,000
Density	g/cm ³	DIN 53479	1.55
Hardness after 24 h	Shore D	DIN 53505	80
Hardness after 7 d	Shore D	DIN 53505	89
Pot life	(200 g) minutes		50

Mechanical values (approx. values)

Demouldable depending on layer thickness	hours		8
Post-curing	days		3
Tensile strength	MPa	DIN 53455	45
Flexural strength (7 d RT/24 h 100 °C)	MPa	DIN 53452	86
Modulus in flexure	MPa	DIN 53452	4,290
Impact strength	KJ/m ²	DIN 53453	11
Impact strength, notched	KJ/m ²	DIN 53453	1.9
Compressive strength	MPa	DIN 53454	89
Coefficient of linear thermal expansion (23 – 62 °C)	10 ⁻⁶ K ⁻¹	VDE	57 x 10 ⁻⁶
Coefficient of linear thermal expansion (63 – 100 °C)	10 ⁻⁶ K ⁻¹	VDE	134 x 10 ⁻⁶
Thermal conductivity	W/K·m	DIN 52612	0.508
Resistance to glow heat	efficiency factor	DIN 52459	3 a
Dimensional stability under heat (7 d RT)	Martens °C	DIN 53458	60
Linear shrinkage	mm/m	1000x500x20mm	0.1

How to process the material

Before use, mix NEUKADUR PU 256 thoroughly until the compound has got a homogeneous appearance. Mix both components with each other at room temperature according to the indicated mixing ratio. Prior to casting make sure that parts and moulds are free from humidity and non-evaporated release agent.

We recommend our release agents NEUKADUR release agent SE and NEUKADUR release spray P 6.

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

Form of delivery

NEUKADUR PU 256	0.900 kg	8.00 kg	30.00 kg
NEUKADUR Hardener H 118 V	0.207 kg	1.80 kg	6.90 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 label (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 datasheets, which contain physical, ecological, toxicological and other data relating to safety, the user can inform himself on the safe handling and storage of the product.

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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