

NEUKADUR ProtoCast 100-15

Polyurethane Casting Compound

altropol

Main features

- very good flowability
- very impact resistant
- also available with shorter pot lives
- very good tintability

Applications

- all kinds of moulds and patterns
- negative / positive cast

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

		NEUKADUR ProtoCast 100-15 Comp. A	NEUKADUR ProtoCast 100 Comp. B
Colour		slightly yellowish	slightly yellowish
Mixing ratio	p.b.w.	100	130
Density 20 °C	g/cm ³	1.05	1.10
Viscosity 25 °C	mPa·s	820	175

Properties of the mixture (approx. values)

			after storage 8 days RT	after storage 8 days RT 5 h 80 °C
Mixed viscosity (25 °C)	mPa·s		520	
Density (20 °C)	g/cm ³	DIN 53479	1.07	
Pot life (23°C)	minutes		15	
Demouldable after (70 °C)	minutes		90	
Hardness	Shore D	DIN 53505	78	80
Recommended layer thickness	mm		10	

Mechanical values (approx. values)

Tensile strength	MPa	DIN 53455	45	47
Tensile elongation	%	DIN 53455	15	18
Flexural strength	MPa	DIN 53452	65	69
Modulus in flexure	MPa	DIN 53457	1,510	1,605
Dimensional stability under heat	°C	HDT	80	80
Impact strength	KJ/m ²	DIN 51230	20	20
Bending elongation	%	DIN 53452	6	7

How to process the material

Prior to processing, homogenize NEUKADUR ProtoCast 100-15 Comp. A thoroughly.

Always close receptacles tightly after use.

After 60 –90 minutes, the cured material has not yet obtained its full impact strength (it will be achieved after approx. 16 - 24 hours only) so that you should demould carefully, particularly in case of thin parts.

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Form of delivery

NEUKADUR ProtoCast 100-15 Comp. A	1 kg	5 kg	25 kg	185 kg
NEUKADUR ProtoCast 100 Comp. B	1.3 kg	6.5 kg	32.5 kg	240 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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