

NEUKADUR ProtoCast 100-05

Polyurethane Casting Compound
impact resistant, low-viscous, curing to be white

altropol

Main features

- very good flowability
- very impact resistant
- also available with longer pot lives
- very good dyeability

Applications

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

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

		NEUKADUR ProtoCast 100-05 Component A	NEUKADUR ProtoCast 100 Component B	
Colour		slightly yellowish	slightly yellowish	
Density 20 °C	g/cm ³	1.05	1.10	
Viscosity 25°C	mPas	approx. 550	approx. 100	

Properties of the mixture (approx. values)

			8d RT	8d RT + 5h 80°C
Mixing ratio	p.b.w.	100	130	
Mixed viscosity	mPas		320	
Mixed density 20 °C	g/cm ³		1.07	
Pot life 23 °C	minutes		4 - 5	
Demouldable 70 °C	minutes		30 - 60	
Shore D-hardness	DIN 53505		78	80
Tensile strength [MPa]	DIN 53455		45	47
Tensile elongation [%]	DIN 53455		15	18
Flexural strength [MPa]	DIN 53452		65	69
Bending elongation [%]	DIN 53452		6	7
Modulus in flexure [MPa]	DIN 53457		1510	1605
Impact strength [KJ/m ²]	DIN 51230		20	20
Dimensional stability under heat [°C]	HDT		80	80

How to process the material

Thoroughly homogenize NEUKADUR ProtoCast 100-05 Component A before processing. Tightly close receptacles after each withdrawal.

After 30 – 60 minutes, the cured material has not yet obtained its full impact strength (it will be achieved after approx. 16 - 24 hours only) so that demoulding should be effected carefully, particularly in case of thin parts.

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Form of delivery

NEUKADUR ProtoCast 100-05 Comp. A	1; 5 ; 25 ; 185 kg
NEUKADUR ProtoCast 100 Comp. B	1, 3 ; 6,5 ; 32,5 ; 240 kg

Storage

The material should be kept in tightly closed original receptacles at temperatures of 15 - 25 °C. When duly stored, the materials can be used within the shelf life indicated on the labels.

Measure of precaution

Users should make use of the current safety data sheets, which contain physical, ecological, toxicological and other data relating to safety, to inform themselves on the safe handling and storage of the products.

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