

# NEUKADUR MultiCast 11

2-C PUR Fast-Cast System  
Very high impact strength (unfilled)

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## Main features

- Casting system of very high quality
- extremely impact resistant (unfilled)
- clear increase in the impact strength by tempering
- low shrinkage

## Applications

- production of parts
- universally for all kinds of moulds and patterns
- prototyping

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

		NEUKADUR MultiCast 11	NEUKADUR Hardener ISO 1	Unfilled mixture	Mixture filled with NEUKADUR Filler B
Colour		beige	yellowish	beige	beige
Mixing ratio	p.b.w.	100	100		200
Density 20 °C	g/cm <sup>3</sup>	1.0	1.2	1.08	1.6
Viscosity 25 °C	mPa·s	1,000	100	600	4,000

## Properties of the mixture (approx. values)

			Unfilled mixture	Filled mixture
Pot life (25 °C)	(100g) min		5	4
Demoulding time at 25°C				
4 – 5 mm	hours		14	10
30 – 40 mm	hours			3.5

## Properties of the cured product (approx. values)

			Unfilled mixture	Filled mixture
Hardness	Shore D	DIN 53505	75	85
Tensile strength	MPa	DIN 53455	32	18
Tensile elongation	%	DIN 53455	19	--
Flexural strength	MPa	DIN 53452	48	43
Bending elongation	%	DIN 53452		2
Modulus in flexure	MPa	DIN 53457	810	2,300
Impact strength	KJ/m <sup>2</sup>	DIN 51230	50	20
Impact strength after tempering 8 h 80 °C	KJ/m <sup>2</sup>	DIN 51230	150	
Dimensional stability under heat	°C	HDT	67.5	
Linear dimensional change	%	500 x 50 x 25 mm		0.20

## How to process the material

Before using NEUKADUR MultiCast 11, mix the same thoroughly until it has got a homogeneous appearance.

Mix both components thoroughly with each other at room temperature (>18°C) according to the indicated mixing ratio.

Before casting make sure that parts and moulds are free from humidity and non-evaporated release agent.

For layers with a thickness of >5 mm, we recommend the use of fillers, e. g. NEUKADUR filler B.

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We also recommend sharing out the quantity of filler between both components.

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

## **Form of delivery**

NEUKADUR MultiCast 11	1 kg	5 kg	10 kg	30 kg	200 kg
NEUKADUR Hardener ISO 1	1 kg	5 kg	10 kg	30 kg	200 kg
NEUKADUR Filler B	5 kg	10 kg	25 kg	40 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 3<sup>rd</sup> 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.

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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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2/2