

# NEUKADUR MultiCast 12

## 2-C PUR Fast-Cast System

### Universal binder with a long pot life

# altropol

#### Main features

- low-viscous
- easy to process
- good through-curing with a relatively long pot life
- very low shrinkage

#### Applications

- production of negatives/positives
- universally for all kinds of moulds and patterns

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

		NEUKADUR MultiCast 12	NEUKADUR hardener ISO 2	unfilled mixture	Mixture filled with NEUKADUR filler B
Colour		beige / black	yellowish	beige	beige / black
Mixing ratio	p.b.w.	100	100		350
Density (20 °C)	g/cm <sup>3</sup>	0.95	1.10	1.05	1.6
Viscosity (RT)	mPa·s	140	75	105	3,500

#### Properties of the mixture (approx. values)

			Unfilled mixture	Filled mixture
Pot life	(100g) min	RT	9	12
Demoulding time at 25°C				
4 – 5 mm	hours		24	6
30 – 40 mm	hours			3

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

Hardness	Shore D	DIN 53505	75	82
Tensile strength	MPa	DIN 53455	23	16
Tensile elongation	%	DIN 53455	20	5
Flexural strength	MPa	DIN 53452	32	29
Bending elongation	%	DIN 53452	10	1.5
Modul in flexure	MPa	DIN 53457	560	1,800
Dimensional stability under heat	°C	according to HDT	45	-
Impact strength	KJ/m <sup>2</sup>	DIN 51230	12	5
Compressive strength	MPa	DIN 53454	-	90
Linear shrinkage	%	500 x 50 x 25 mm	-	0.18

RT= room temperature

#### How to process the material

Before using NEUKADUR MultiCast 12, 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.

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

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

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#### **Form of delivery**

NEUKADUR MultiCast 12	1 kg	5 kg	10 kg	30 kg
NEUKADUR hardener ISO 2	1 kg	5 kg	10 kg	30 kg
NEUKADUR filler B	5 kg	10 kg	25 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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• [www.altropol.de](http://www.altropol.de) •

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