

NEUKADUR MultiCast 5

2-C PUR Fast Cast System

Very quick through-curing

altropol

Main features

- easy to process
- low shrinkage
- very good curing properties even in thin layers
- high heat stability

Applications

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

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

| | | NEUKADUR MultiCast 5 | NEUKADUR Hardener ISO 2 | Unfilled mixture | Mixture filled with filler B |
|-----------------|-------------------|----------------------|-------------------------|------------------|------------------------------|
| Colour | | beige | yellowish | beige | beige |
| Mixing ratio | p.b.w. | 100 | 100 | | 350 |
| Density (20 °C) | g/cm ³ | 0.95 | 1.10 | 1.05 | 1.6 |
| Viscosity (RT) | mPa·s | 160 | 75 | 110 | 4,500 |

Properties of the mixture (approx. values)

| | | | Unfilled mixture | Filled mixture |
|-------------------------|---------|-----------|------------------|----------------|
| Pot life (RT, 100 g) | minutes | | 2 | 4 |
| Demoulding time at 25°C | | | | |
| 4 - 5 mm | minutes | | 10 | 15 |
| 30 - 40 mm | minutes | | | 13 |
| Hardness | Shore D | DIN 53505 | 78 | 84 |

Mechanical values of the cured product (approx. values)

| | | | | |
|----------------------------------|-------------------|------------------|-----|-------|
| Tensile strength | MPa | DIN 53455 | 37 | - |
| Tensile elongation | % | DIN 53455 | 6 | - |
| Flexural strength | MPa | DIN 53452 | 42 | 31 |
| Bending elongation | % | DIN 53452 | 7.5 | 1.5 |
| Modulus in flexure | MPa | DIN 53457 | 800 | 2,450 |
| Dimensional stability under heat | °C | according to HDT | 105 | - |
| Impact strength | kJ/m ² | EN ISO 179 | 12 | 6 |
| Compressive strength | MPa | DIN 53454 | - | 80 |
| Linear dimensional change | % | 500 x 50 x 25 mm | - | 0.15 |

How to process the material

Before using NEUKADUR MultiCast 5, 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.

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

Form of delivery

| | | | |
|-------------------------|------|-------|-------|
| NEUKADUR MultiCast 5 | 1 kg | 5 kg | 10 kg |
| NEUKADUR Hardener ISO 2 | 1 kg | 5 kg | 10 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 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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