

NEUKADUR Flexible Compound HS 75-30

General

The NEUKADUR Flexible Compound HS 75-30 Comp. A with the NEUKADUR Flexible Compound HS 75 Comp. B is a filled two-component polyurethane casting compound of a very high quality which cures with highly elastic properties. The mechanical values as for example **elongation and resistance to tear propagation** of the cured material **are extremely high.**

NEUKADUR Flexible Compound HS 75-30 Comp. A/HS 75 Komp. B **are sensitive to low temperatures.** When being stored at temperatures below +10°C for a longer period of time or when being transported at <+10°C, the components may crystallize out. This appearance is reversible if the materials are stored for instance at +30°C (e. g. store them at/on the central heating or carefully heat them up on a heating plate) for 1 – 2 hours and then homogenized thoroughly prior to being cast. An inadequate realization of this may result in an **insufficient curing of the reaction system.**

Attention: Strictly adhere to the mixing ratio to obtain the optimal properties

Mixing ratio

100 p.b.w. NEUKADUR Flexible Compound HS 75-30 Comp. A
40 p.b.w. NEUKADUR Flexible Compound HS 75 Comp. B

Properties

- very good flowability
- relatively quick curing
- good machinability
- low shrinkage
- high restoring force
- good resistance to chemicals
- very high elongation
- very high resistance to tear propagation
- good resistance to abrasion

- Fields of application**
- all kinds of moulds and models, especially for the ceramic and concrete industry
 - control castings
 - negative / positive forming
 - moulds for the vacuum casting

Form of delivery

NEUKADUR Flexible Compound HS 75-30 Comp. A

5 kg / 25 kg

NEUKADUR Flexible Compound HS 75 Comp. B

2 kg / 10 kg

Shelf life At 18-25°C in closed original drums: 6 months

NEUKADUR Flexible Compound

	<u>HS 75-30 Comp. A</u>	<u>HS 75 Comp. B</u>
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Properties in state upon delivery

Colour	grey	yellow
Density (20 °C)	g/cm ³	approx. 1.30
Viscosity (25 °C)	mPa·s	approx. 22000
		approx. 80

Properties of the mixture

Mixing ratio	100 p.b.w.	40 p.b.w.
Mixed viscosity (25 °C)	mPa·s	approx. 3000
Mixing density (20 °C)	g/cm ³	approx. 1.10
Pot life (RT)		
100 g	minutes	approx. 30
Demoulding time depending on thickness of layer (RT = approx. 23 °C)	hours	approx. 24

Mechanical values of the cured material (7 days / RT)

Shore A-hardness	DIN 53505	points	approx. 75
Tensile strength	DIN 53504	N/mm ²	approx. 7
Elongation	DIN 53504	%	approx. 450
Resistance to tear propagation	DIN 53515	N/mm	approx. 22

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