

NEUKADUR Fleximasse N (NL) NEUKADUR Fleximasse N hell (NL hell) with NEUKADUR hardener Fleximasse N 1, N 2, N 3

General	<p>NEUKADUR Fleximasse N (NL) with NEUKADUR hardener Fleximasse N is an liquid two component polyurethane casting resin. The final product in an elastic, rubberlike material with low linear shrinkage. Due to its good pourability and low viscosity entrapped air can escape completely within the pot-life.</p> <p>NEUKADUR Fleximasse N is also available in beige colour as NEUKADUR Fleximasse N hell. NEUKADUR Fleximasse NL has together with NEUKADUR hardener Fleximasse N a longer pot-life.</p> <p>The shore-A-hardness is adjustable by using different NEUKADUR hardener (N 1 = 40 Shore A, N 2 = 50 Shore A, N 3 = 60 Shore A)</p>
Mixing ratio	<p>100 p.b.w. NEUKADUR Fleximasse N (NL) 15 p.b.w. NEUKADUR hardener Fleximasse N 1 10 p.b.w. NEUKADUR hardener Fleximasse N 2 5 p.b.w. NEUKADUR hardener Fleximasse N 3</p>
Fields of application	<p>Due to its rubber-like elasticity NEUKADUR Fleximasse N (NL) is suitable for several applications in the field of technology, science, art and handicrafts. Production of elastic negatives for parts made from concrete, plaster of paris, reaction resins and wax with undercuts and structured surfaces.</p>
Processing	<p>A careful and intensive intermix of resin and hardener will reduce the amount of entrapped air and will give a more favourable wetting. The mixing ratio should be closely observed. The support frame and models should have a pourous cell free, smooth surface. Pourous surfaces, e. g. hardfoam, wood, concrete or plaster of paris are to seal with NEUKADUR release wax TW to avoid that the release agent can penetrate into the capillary of the surface. We recommend to use NEUKADUR release agent SE, release agent N or release spray P 6. The NEUKADUR components and the moulded parts should have a temperature of approx. 20° C. Curing can take place at lower temperatures, but the material is then made somewhat more viscous, making the application and subsequent de-aeration more difficult. The NEUKADUR Fleximasse N should be poured slowly into the mould in order to reduce the amount of entrapped air; and what there is can escape completely within the pot-life. Where there are several facets to the mould, the casting may be undertaken piecemeal until the whole is cast. The time between successive castings should not be more than 1 hour, for full adhesion between layers</p>
Pot-life	<p>The pot-life depends to temperature, type of Fleximasse (N or NL) and the type of hardener</p>

Availability

preweighed packages	NEUKADUR Fleximasse N (NL)	1 kg
	NEUKADUR hardener Fleximasse N 1	150 g
	NEUKADUR hardener Fleximasse N 2	100 g
	NEUKADUR hardener Fleximasse N 3	50 g
full-size packages	NEUKADUR Fleximasse N (NL)	10 kg
	NEUKADUR hardener Fleximasse N 1	1,5 kg
	NEUKADUR hardener Fleximasse N 2	1,0 kg
	NEUKADUR hardener Fleximasse N 3	0,5 kg

Shelf-life at 18 - 25 °C in closed original drums 6 month.

Properties of the components

	NEUKADUR Fleximasse N (NL)	NEUKADUR hardener N1	NEUKADUR hardener N2	NEUKADUR hardener N3
colour	grey (beige)	brown	brown	brown
density g/cm ³ (20 °C)	approx. 1,4	approx. 1,1	approx. 1,15	approx. 1,2
viscosity (20 °C)	approx. 9000	approx. 100	approx. 150	approx. 300

Properties of the mixture

Mixing ratio	100	15	10	5
Mixing viscosity (20 °C)	mPa·s	approx. 4000	approx. 4500	approx. 6000
Pot life (20 °C)				
100 g	minutes	approx. 45	approx. 35	approx. 25
1000 g	minutes	approx. 40	approx. 30	approx. 20
1000 g Fleximasse NL	minutes	approx. 100	approx. 80	approx. 60
tackfree	hours	approx. 6	approx. 5	approx. 5
Fleximasse NL	hours	approx. 9	approx. 8	approx. 8
Curing time (20 °C)	hours	12-24	12-24	12-24
Fleximasse NL	hours	approx. 36	approx. 36	approx. 36

Properties of the cured product 7 days RT Fleximasse N and NL:

Shore A-hardness	DIN 53505	points	approx. 40	approx. 50	approx. 60
Density	DIN 53479	g/cm ³	approx. 1,35	approx. 1,35	approx. 1,4
Tensile strength	DIN 53455	N/mm ²	approx. 2	approx. 2,5	approx. 3
Elongation	DIN 53455	%	approx. 400	approx. 300	approx. 200
Tear strength	ASTM-624 B	N/mm	> 20	> 19	> 21

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