

NEUKADUR EP 202 with NEUKADUR hardener T 3, T 6 and T 9

Description	NEUKADUR EP 202 is a modified epoxy resin with low viscosity, which can be cured at room temperature with NEUKADUR hardener T 3, T 6 and T 9. NEUKADUR EP 202 can be used as laminating resin with good impregnating properties as well as casting resin in combination with fillers.	
Mixing ratio	100 p. b. w. NEUKADUR EP 202 17 p. b. w. NEUKADUR hardener T 3 or 20 p. b. w. NEUKADUR hardener T 6 or 20 p. b. w. NEUKADUR hardener T 9	
Fields of application	To be used as laminating or universal resin. In combination with mineral or metallic fillers for castable or bulkable backfilling.	
Processing	The indicated mixing ratio must be closely observed. Resin and hardener should be stirred thoroughly (mixture by hand approx. 3 minutes). While using powdery or fibrous fillers, first resin and hardener are to be mixed and afterwards the fillers (dry and fat free) are added.	
Pot-life	The pot-life depends on the temperature. At 20° C a quantity of 1 kg has a pot-life of approx. 50 minutes with hardener T 3 approx. 40 minutes with hardener T 6 and approx. 100 minutes with hardener T 9.	
Availability	NEUKADUR EP 202	5 kg package 10 kg package 30 kg package 60 kg package 220 kg package
	NEUKADUR hardener T 3 NEUKADUR hardener T 6 NEUKADUR hardener T 9	1 kg package 5 kg package 10 kg package 25 kg package 50 kg package
Shelf-life	At room-temperature (18 - 25° C) and in closed original drums approx. 1 year, hardener 6 month.	

		NEUKADUR EP 202	NEUKADUR hardener T 3	NEUKADUR hardener T 6	NEUKADUR hardener T 9
<u>Properties of the components</u>					
Colour		amber	amber	amber	amber
Density (20 °C)	g/cm ³	approx. 1,15	approx. 0,95	approx. 0,95	approx. 0,95
Viscosity (20 °C)	mPa·s	approx. 1.800	approx. 200	approx. 500	approx. 100

Properties of the mixture

Mixing ratio		100 p. b. w.	17 p. b. w.	20 p. b. w.	p. b. w.
Mixing viscosity (20 °C)	mPa·s		approx. 1200	approx. 1400	approx. 800
Pot life (20 °C) 1000 g	minutes		approx. 50	approx. 40	approx. 100
Curing time (20 °C)	hours		approx. 20	approx. 24	approx. 30

Properties of the reaction product - 7 days at RT

Shore D-hardness	DIN 53505	points	approx. 77	approx. 75	approx. 75
Density	DIN 53479	g/cm ³	approx. 1,13	approx. 1,10	approx. 1,10
Tensile strength	DIN 53455	N/mm ²	50 - 60	50 – 55	50 - 60
Elongation	DIN 53455	%	3,5 - 4,0	4 – 6	4 - 6
Modules of elasticity	DIN 53457	N/mm ²	approx. 2.650	approx. 2.500	approx. 2600
Flexural strength (20 °C)	DIN 53452	N/mm ²	70 - 80	65 – 75	70 – 80
Compressive strength	DIN 53454	N/mm ²	72 - 75	60 – 70	65 - 75
Ball indentation hardness 30“	DIN 53456	N/mm ²	105 - 120	110 – 120	105 - 115
Impact strength	DIN 53453	kJ/m ²	18 - 20	12 – 14	12 - 14
Dimensional stability under heat (Martens)	DIN 53458	°C	approx. 50	approx. 40	approx. 50

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