

NEUKADUR EP RF 250 F

Epoxy Resin Foam System

altropol

Main features

- epoxy resin foam system of **self-extinguishing quality**
- high mechanical and interlaminar adhesion
- low shrinkage
- modification of the density by variation of the quantity of component C to be added

Applications

- component parts for industrial applications
- component parts in the interior of passenger cars and trucks (glass-fiber or natural-fiber reinforced)

Properties in state upon delivery (approx. values)

	NEUKADUR EP RF 250 F Comp. A	NEUKADUR Hardener 255	NEUKADUR EP RF 250 F Comp. C
	resin component	hardener component	blowing agent - CFC-free
Colour	colourless	yellowish	colourless
Density g/cm ³	1.4	0.98	0.96
Viscosity mPa·s (25°C)	7000	300	50

Properties of the mixture (approx. values)

	NEUKADUR EP RF 250 F Comp. A	NEUKADUR Hardener 255	NEUKADUR EP RF 250 F Comp. C
Mixing ratio / parts by weight	100	15	1.5 - 2
Mixed viscosity (25 °C) mPa·s		4500	
Pot life (20 °C) minutes		20	
Curing time (25°C) minutes		90	
Curing time (70°C) minutes		10	

Data of the cured product (approx. values)

Tempered step by step up to 100 °C for 14h

		NEUKADUR Hardener 255
Compressive strength (foam density 0.3g/cm ³)	MPa	work in progress
TG (DSC)	°C	120

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How to process the material

Mix resin and hardener in the indicated ratio until the compound is homogeneous. After addition of 1.5 – 2 % of NEUKADUR EP RF 250 F Comp. C (environmentally friendly blowing agent), an expanding epoxy resin system will be generated.

Take care that material which may adhere to the wall or base of the receptacle will also be mixed thoroughly. Curing takes place at room temperature with hardener 255 (minimum post-curing time: 3 hours at 80 °C) or in heated tools at 60°C for approx. 1.5 hours . The complete curing of the moulding material can be obtained by corresponding post-curing cycles.

The pot life depends on the batch size and temperature involved.

Form of delivery

NEUKADUR EP RF 250 F Comp. A	1, 5, 25, 180 kg	receptacles
NEUKADUR EP RF 250 F Comp. C	0.02; 0.10; 0.50; 3.6 kg	receptacles
NEUKADUR Hardener 255	0.15; 0.75; 1.5; 3.75 kg	receptacles

Storage

The material should be kept in tightly closed original receptacles at temperatures of 15 - 25 °C. When duly stored, the materials can be used within the shelf life indicated on the labels.

Measure of precaution

Users should make use of the current safety data sheets, which contain physical, ecological, toxicological and other data relating to safety, to inform themselves on the safe handling and storage of products.