

NEUKADUR PU 256 E

2-C PUR-Casting System

Universal binder, filled, long pot life

altropol

Main features

- very low exothermic reaction
- easy to process
- very low shrinkage
- good curing properties

Applications

- casting in high layer thicknesses and volumes
- electrical casting
- universally for all kinds of moulds and patterns

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

		PU 256 E	Hardener H 118 V	Mixture
Colour		neutral	brown	
Mixing ratio	p.b.w.	100	23	
Density 20 °C	g/cm ³	1.75	1.20	1.55
Viscosity mPas	room temperature	27,000	300	7,000
Pot life min	room temperature			50
Demouldable depending on layer thickness	hours			6 - 8
Curing time 20°C (post-curing)	days			2 - 3

Mechanical and other specifications (approx. values)

			Mixture
Hardness	Shore D	DIN 53505	after 24 h 80 after 7 d 89
Colour			beige
Tensile strength	MPa	DIN 53455	45
Flexural strength (7 d RT/24 h 100°C)	N/mm ²	DIN 53452	86
Flexural modulus of elasticity	N/mm ²	DIN 53452	4,290
Impact strength	KJ/m ²	DIN 53453	11
Impact strength, notched	kJ/m ²	DIN 53453	1.9
Compressive strength	N/mm ²	DIN 53454	89
Coefficient of linear thermal expansion (23 - 62°C)	K ⁻¹	VDE 0304 T.1	57 x 10 ⁻⁶
Coefficient of linear thermal expansion (62 - 100°C)	K ⁻¹	VDE 0304 T.1	134 x 10 ⁻⁶
Thermal conductivity	WK ⁻¹ m ⁻¹	DIN 52612	0.508
Incandescence resistance	efficiency factor	DIN 53459	3 a
Dimensional stability under heat (Martens) (7 d RT)	°C	DIN 53458	60
Linear shrinkage (at 20°C) (Test specimen 1000 x 50 x 20)	mm/m		0.1

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Electrical properties

Dielectric strength at 23°C	KV/mm	VDE 0303/2	17.9
Surface resistance dry at 23°C		VDE 0303/3	9×10^{13}
Volume resistivity at 23°C	$\Omega \cdot \text{cm}$	VDE 0303/3	6.5×10^{15}
Creep resistance VDE 0303/1 step			KA 3c/KC>600
Dissipation factor at 50 Hz	$\tan \delta$	VDE 0303/4	23°C = 0.005 50°C = 0.008
Dielectric constant at 50 Hz	ϵ_r	VDE 0303/4	23°C = 4.6 50°C = 4.6
Electrolytic corrosion		VDE 0303/6	A/1

How to process the material

Before use, mix PU 256 E thoroughly until the compound has got a homogeneous appearance. Mix both components with each other at room temperature (> 18°C) according to the indicated mixing ratio. Prior to casting make sure that parts and moulds are free from humidity and non-evaporated release agent.

Form of delivery

NEUKADUR PU 256 E	900 g; 8 kg; 30 kg
NEUKADUR H 118 V	207 g; 1.8; kg, 6.5 kg

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.