

## 6. POTTING MATERIALS VUKUR/ Polyurethans/ VUKUR OM 33nc



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- shorter time of curing, black colour, flame retardant

### Application:

VUKUR OM 33nc is a reactive PUR casting resin curable at room temperature with low exotherm. It is solvent less. It is suitable for filling of the voids, especially at the construction of electrical equipment, where the casting without internal extension is required. Good flexibility, good temperature conductivity and good electroinsulating properties are required too. It is suitable for casting of transformers and electronics too. Due to high elongation at break it is suitable for casting the materials with various coefficient of thermal expansion. Thermal endurance 130 °C.

### Characteristic:

Casting resin of black color with flexibility of hard gum. Two component casting resin consists of polyol component VUKOL 033nc and VUKIT M hardener, mixed in the mass ratio 100:23.

### Technical data:

Properties of VUKUR OM 33nc		VUKOL 033nc	VUKIT M
Viscosity at 25 °C	[mPa.s]	2500 - 3800	85 - 135
Initial viscosity of compound at 25 °C	[mPa.s]	2 000 - 3 000	
Flash point	[°C]	> 200	> 200
Pot life: 1 kg of compound at 23 °C		0,5	
Curing time at 23 °C	[h]	min. 16	

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### Technical data:

Properties of VUKUR OM 33nc after 14 days curing at 23 °C

Tensile strength	[MPa]	4,4 – 6,1
Elongation at break	[%]	31-35
Electric strength at 23 °C on test specimen with thickness 2 mm	[kV/mm]	22-27
Volume resistivity at 23 °C	[Ω .m]	9,3.10 <sup>11</sup>
- after immersion in water for 24 h	[Ω .m]	7,1.10 <sup>11</sup>
- after immersion in water for 10 days	[Ω .m]	9,0.10 <sup>10</sup>
Surface resistivity	[Ω]	3,1.10 <sup>13</sup>
- after immersion in water for 24 h	[Ω]	2,1.10 <sup>15</sup>

### Characteristic:

In 22 kg vessels respectively according to the agreement.

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