

Description: Relicon® PUR 33 is a cold- hardening, universally applicable two- component polyurethan cast resin for the low- voltage range. Relicon® PUR 33 has the classification of LMP-W and LI-W according to CENELEC HD 631.1 S2. After hardening, Relicon® PUR 33 is characterised by its outstanding resistance to impact as well as by its resistance to dampness and atmospheric corrosion.

Application: Mechanical protection and electrical insulation for low- voltage joints indoors and outdoors as well as for casting under water.

Properties: Excellent flow behaviour
Ready for use immediately
Can be cast under water
In a practical, transparent two- chamber pouch
Evident homogeneous mixing thanks to the patented colour change from blue to green
Very hydrophobic, can harden in water
Excellent hydrolytic stability
Little volume shrinkage
Excellent adhesion on all plastic cables and wires
Low exothermic reaction temperature
Halogen-free
Good hardening even at low temperatures
No dangerous waste with homogeneous mixing of the resin
SVHC- free (contains no dangerous substances)

Processing properties:	Mixing ratio:	A:B	100:26
	Pot time	bei 5°C	43 min.
		bei 23°C	15 min.
		bei 40°C	8 min.
	Gel time	bei 5°C	48 min.
		bei 23°C	20 min.
		bei 40°C	9 min.

Physical properties:	Comonent A (resin)		
	Density at 20°C	1,40 g/cm³	DIN EN ISO 2811-2
	Viscosity at 25°C	3000 mPa*s	EN ISO 2555
	Comonent B (hardener)		
	Density at 20°C	1,24 g/cm³	DIN EN ISO 2811-2
	Viscosity at 25°C	210 mPa*s	EN ISO 2555
	Mixed cast resin		
	Density at 20°C	1,37 g/cm³	DIN EN ISO 2811-2
	Viscosity at 5°C	4500 mPa*s	EN ISO 2555
	Viscosity at 23°C	3000 mPa*s	EN ISO 2555
	Max. exothermicity	71°C	HD 631.1 S2
	Hardening under water, gas volume	<1 ml	HD 631.1 S2
	Volume shrinkage	2,3%	EN ISO 3521
	Dielectric strength	16,4 kV/mm	EN 60243-1

Mechanical properties: (hardened)	Temperature resistance	-25 / +120°C	
	Shore hardness D	65	EN ISO 868
	Tensile strength	11 MPa	EN ISO 527
	Ultimate strain	22%	EN ISO 527
	Impact resistance (without indentation)	26 kJ/m²	EN ISO 179

Electrical properties: (hardened)	Volume resistance 23°C	8*10 ¹⁴ Ω*cm	IEC 60250
	Volume resistance 80°C	1*10 ¹² Ω*cm	IEC 60250
	Dielectric strength 23°C	38 kV/mm	EN 60243-1
	Loss factor 23°C 50Hz	< 0,038	IEC 60250
	Loss factor 80°C 50Hz	< 0,039	IEC 60250
	Dielectric constant 23°C	4,44	IEC 60250
	Dielectric constant 80°C	6,79	IEC 60250

Electrical properties after thermal storage at 120°C for 28 days

Dielectric strength 23°C	48 kV/mm	EN 60243-1
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Electrical properties after immersion in water for 28 day at 70°C:

Dielectric strength 23°C	20 kV/mm	EN 60243-1
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Usage information:

The resin is delivered in a transparent two- chamber plastic pouch. Both components are separated by a middle seam. In order to protect the resin from dampness and thereby guarantee optimal durability of the products, the transparent plastic pouch is shrink-wrapped in a paper pouch laminated with aluminium. Further instructions for use and processing can be found on this data sheet or on the product packaging.

Storage:

Das Relicon® PUR 33 must be stored in a protective aluminium pouch at ambient temperatures of between 5°C and 40°C. When stored appropriately, the product can be stored for 48 months. The expiry date can be found on the product packaging.

Safety information:

Safety information relating to the potential effects on health, safe handling, storage, usage and disposal of the product can be found on our product- specific safety data sheet.

Article- No.	Typ	ml / g
435-00250	RELICON PUR33 PUR GN 95	95 / 130
435-00251	RELICON PUR33 PUR GN 240	240 / 329
435-00252	RELICON PUR33 PUR GN 490	490 / 671
435-00253	RELICON PUR33 PUR GN 655	655 / 897
435-00254	RELICON PUR33 PUR GN 955	955 / 1308
435-00255	RELICON PUR33 PUR GN 1140	1140 / 1562
435-00256	RELICON PUR33 PUR GN 1445	1445 / 1562
435-00257	RELICON PUR33 PUR GN 1640	1640 / 2247
435-00258	RELICON PUR33 PUR GN 1950	1950 / 2672
435-00259	RELICON PUR33 PUR GN 2045	2045 / 2802



CENELEC
HD 631.1 S2



SVHC
free



REACH
1907/2007



RoHS

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This information is based on our experience and does not imply suitability without prior testing. Due to the variables of manufacture and environmental conditions it is strongly recommended that samples are tested in-situ