



TECHNICAL DATA SHEET

VILEPOX® B-11/P-15

Resin system

Field of application: In the electrical industry this highly reactive resin system can be used for producing small moulds and castings, for impregnating winding, as well as an adhesive. It can be filled efficiently with the usual fillers. The system has excellent general and processing properties. During the application care should be taken to avoid overheating, which might be caused by the high reactivity. It can be used even at lower temperatures (above +5 °C) and among wet conditions.

Specifications:

	VILEPOX® B-11 component „A”	VILTER® P-15 component „B”
Characteristic	Modified, medium viscosity epoxy resin	Low viscosity aliphatic polyamine based, solventless, high reactivity hardener with low working temperature >+5°C
Appearance	clear, transparent liquid	yellowish-brownish liquid
Density at 25 °C g/cm ³	1,13 - 1,17	1,05-1,1
Viscosity at 25 °C mPas	2200-4200	3400- 5000
Flash point , °C	>150	
Non-volatile matter content, %	99,8	99,8
Gardner color scale		<5
Shelf -life	min. 12 Months	min. 12 Months
Storage	in tightly closed, original containers at 5-20°C, in a dry place far from heaters	
Inflammability	III. grade	III. grade

Mixing ratio:

Vilepox B-11/P-15 component „A” 100 mass units (g)
Vilepox B-11/P-15 component „B” 21 mass units (g)

	Mixture
Gel time (100g, 25°C, minutes)	10-20
Mixed density (25 °C, g/cm ³)	1,00-1,19
Initial viscosity (25 °C, mPas)	3000-5000
Potlife:	
Time until viscosity doubles (50 g, 25°C, minutes)	kb. 13
Hardening time at room temperature, hours:	kb. 24



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	Hardened material*
Density (24 °C), g/cm ³	1,00-1,19
Flexural strength, N/mm ²	min. 100
Impact strength, kJ/mm ²	min. 15
Tensile strength, N/mm ²	min. 60
Martens temperature, °C**:	min. 80
Water absorption, 25°C, %	max. 0,4
Breakdown field strength, 25°C, kV/mm	min. 12
Specific surface resistance, Ohm	min. 10 ¹⁵
Specific volumetric resistance, Ohm x cm	min. 10 ¹⁵

* Test shall be carried out after conditioning the material for 7 days at room temperature.

** The Martens temperature can be improved by subsequent curing (e.g. 80°C/1 h).

Do not hesitate to contact us for further information on technical, processing and commercial details.

Labour safety information: the hardened material is not harmful. Information on the components is detailed in the relevant data sheets.

The information contained in this data sheet has been collected on the basis of our best engineering knowledge, however, it is not intended to provide any legal commitment.

Vilepox B-11/P-15 ENG 3.