



TECHNICAL DATA SHEET

VILEPOX® B-116 coating varnish system Temporary Data Sheet

Field of application: A two-component epoxy varnish system with solvents for coating all kinds of mounted surfaces e.g. iron cores, small moulds, iron castings and impregnation of coils etc.

Characteristics:

- fast drying
- excellent adhesion to steel, copper, aluminium and most of plastics
- excellent elasticity
- excellent dielectric properties
- excellent mechanical properties
- excellent chemical resistance
- wide field of application
- good filling properties with most of the fillers
- contains solvents

Specification of the components:

	Norms	Units	VALUES	
			VILEPOX B-116 component "A"	VILEPOX B-116 component "B"
Characteristics	-	-	Modified epoxy resin solution	A low viscosity, aliphatic polyamine based hardener containing solvents
Appearance:	HSZ 003	-	clear, transparent liquid	yellowish-brown liquid
Density at 25 °C, g/cm ³	HSZ 004 (ISO 1675)	g/cm ³	1,06 - 1,11	0,87 - 0,92
Viscosity at 25°C, mPas	HSZ 010 (ISO 2555)	mPas	9000 - 13000	5 - 25
Non-volatile matter content %	MSZ EN ISO3251:2003	%	> 75	> 50
Flashpoint, °C	ASTM D93	°C	> 24	> -18
Storage	-	-	in tightly closed, original containers at 5-25°C, in a dry place far from heaters	
Shelf-life	-	months	min. 12	min. 12
Flammability	-	grade	II.	I.
Packaging	-	-	metallic can	metallic can
Dangerous decomposition products	during burning toxic gases and vapours get generated e.g. carbon monoxide, carbon-dioxide, nitrogen oxides			



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Specification of the mixture

Mixing ratio:

VILEPOX® B-116 „A”	100	parts of mass (kg)
VILEPOX® B-116 „B”	50	parts of mass (kg)

Properties	Norms	Units	Values
Density at 25 °C	HSZ 004 (ISO 1675)	g/cm ³	1,00 - 1,05
Initial viscosity at 25 °C	HSZ 010 (ISO 2555)	mPas	150 - 350
Potlife at 25°C, 50 g Untill doubling of viscosity Until tripling of viscosity	HSZ 010 (ISO 2555)	hours	3,5 - 4,5 5 - 6
Hardening time, 4. grade	MSZ 9640/25-1989	hours	8 - 10
Hardening time at room- temperature	-	hours	24

Properties of the hardened material

Properties	Norms	Units	Values
Water absorbtion	ISO 62	%	< 0,2
Specific volume resistivity	IEC 93	x cm	> 10 ¹⁴
Specific surface resistivity	IEC 93	Ohm	> 10 ¹⁵
Resistance to transformer-oil at room- temperature	HSz014		resistant
Resistance to transformer-oil at 100 °C	HSz014		resistant

Labour safety information

During work: Closed working-clothes, safety glasses and gloves have to be worn.

Skinprotection: A skin-protective cream has to be applied on hands before starting work.

Removing the material from the skin: The material has to be absorbed with a dry clothes or paper and the skin has to be washed with soapy warm water and dried. Afterward it has a protective cream has to be used. The dirty paper or clothes used for absorbtion should be disposed to a plastic container or sack.

Ventilation: The working place has to be ventilated 3-5 times an hour. Workers should avoid breathing in the vapours.

First-aid: In case the material gets into the eyes, they should be rinsed thoroughly with water for 15 minutes and the worker should see a doctor as soon as possible. From skin the material should be removed as above. Contaminated clothes should be taken of immediately. In case somebody feels unwell after breathing in vapours he has to be taken on open air and see a doctor as soon as possible.

The hardened material is physiologically not harmful. Labour safety and environmental information is detailed in the „Safety data sheets” of the product.



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Information on application

- Vilepox® B-116 can be applied by brush or spraying. Dries fast on air, but hardening can be shortened by baking.
- Baking can be made at least 30 minutes after applying the varnish, e.g. at 80 °C for 30 minutes.
- Before applying the varnish surfaces must be cleaned from mechanical contaminations and grass.
- Can be diluted by Vilepox® H-1 solvent.
- During mixing the temperature of the components should be between 15-25 °C (room temperature).
- Prescribed mixing ratio has to be respected at every mixing.
- The components have to be mixed accurately till receiving absolute homogeneity and applied within potlife.
- After increased viscosity or when gelling has started materials must not be used.
- For cleaning tools and brushes Vilepox H-3 should be used.

If you have any further questions regarding this system do not hesitate to contact us.

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-116 ENG

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