



## TECHNICAL DATA SHEET

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### VILEPOX® SX-14

Fire-retardant casting and potting resin system of high thermal resistance

Field of application: A fire-retardant casting resin system of excellent thermal resistance for indoor and outdoor insulators, transformers, resin castings etc. Hardens at room-temperature, but curing-time can be shortened by hot-curing.

Features:

- excellent thermal-resistance, > 200°C
- fire-retardant, acc. to norm UL-94 class V-0
- available both in transparent and coloured version
- excellent resistance to UV and weather-conditions
- elastic system
- excellent dielectrical properties
- good resistance to water and chemicals
- free of solvents and halogens  meets RoHS requirements



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## Specification of the components

	VILEPOX® SX-14 component „A”	VILEPOX® SX-14 component „B”		
FEATURES	VALUE		UNIT	NORM
Characteristics	modified silicone resin	modified silicone resin	-	-
Appearance	clear, transparent liquid*	clear, transparent liquid	-	HSZ 03
Density at 25 °C	0,97 - 1,04	0,95 - 1,00	g/cm <sup>3</sup>	HSZ 04 (ISO 1675)
Viscosity at 25°C	2000 - 4000	60 - 160	mPas	HSZ 10 (ISO 2555)
Non-volatile matter content	100	100	%	ASTM D2369
Flashpoint, enclosed	>100	>100	°C	ASTM D93
Storage	in tightly closed, original containers at 5-25°C, in a dry place far from heating sources*			
Shelf-life at room-temp.	12	12	months	-
Packaging**	20 kg plastic can	2 kg plastic can	kg	-
Flammability	III. (flammable)	III. (flammable)	class	-

\*On request available in coloured version.

\*\* On request other packaging is also available.

## Specification of the mixture

### Mixing ratio:

	MASS (kg)	VOLUME (liter)
VILEPOX® SX-14 component „A”	100	100
VILEPOX® SX-14 component „B”	10	10,5

FEATURES	VALUE	UNIT	NORM
Geltime at 25°C (gelnorm)*	9 - 13	hours	HSZ 02
Geltime at 110 °C	15 - 25	min.	HSZ 12
Density at 25 °C	0,99 - 1,03	g/cm <sup>3</sup>	HSZ 04 (ISO 1675)
Initial viscosity at 25 °C	2000 - 3000	mPas	HSZ 10 (ISO 2555)

Korax Műgyantagyártó és Ker. Kft

Part of the AEV group

H- 2518 Leányvár, Ipartelep 08/26 hrsz.

Tel.: +3633-507-730 e-mail: [mail@koraxbp.hu](mailto:mail@koraxbp.hu) web: [www.koraxbp.hu](http://www.koraxbp.hu)



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Potlife (until tripling of viscosity)	2 - 3	hours	HSZ 10 (ISO 2555)
Hardening time at 25 °C	24	hours	ISO 868
Time of full hardening at 25 °C	7	days	ISO 868

Properties of the hardened material:

FEATURES	VALUE	UNIT	NORM
Tensile strength	> 6	N/mm <sup>2</sup>	ISO 527
Elongation at rupture	150 - 170 %	N/mm <sup>2</sup>	ISO 527
Shore A	45 - 55	-	ISO 868
Shore D	5 - 15	-	ISO 868
Fire-retardancy at 3 mm thickness	V0	class	UL-94
Thermal class	> H	class	IEC 60085
Specific surface resistivity	> 10 <sup>15</sup>	Ω (Ohm)	IEC 93
Specific volume resistivity	> 10 <sup>15</sup>	Ω x cm	IEC 93
Dielectric strength at 25°C	> 30	Kv/mm	IEC 243

### Information on application

1. In case of manual application:

- 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.
- Mixing the components: first component „A” and „B” should be measured acc. to mixing ratio, and after pouring together the two components the whole mass of the product have to be mixed accurately till receiving absolute homogeneity.
- This mixture should be used for casting.
- Mixture should be used within potlife (untill tripling of viscosity). Material of increased viscosity or with begun gelling must not be used.

2. In case of automatic application: According to the machine specific instructions.

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3. For cleaning the tools and brushes Vilepox H-1 should be used. Cured material though can only be removed mechanically or through burning.

Technical expertise: In case of any questions our experts are ready to help our partners in any questions e.g. adaptation and development of technical parameters of our products.



### Labour safety information

Labour safety and environmental information is detailed in the „Safety data sheets” of the product.

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.

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VILEPOX SX-14 ENG 3.