

4. IMPREGNATING RESIN VUPOXY/ Epoxy resin/ VUPOXY E - 2K



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Application:

Liquid two – component trickling resin based on the epoxy without thinner includes

Epoxy resin E 07 weight ratio - 100

Hardener AT 07 weight ratio - 33

VUPOXY E-2K is suitable for impregnating by trickling method for high speed stress rotors windings for hand tools and for domestic appliances with thermal class H.

Description:

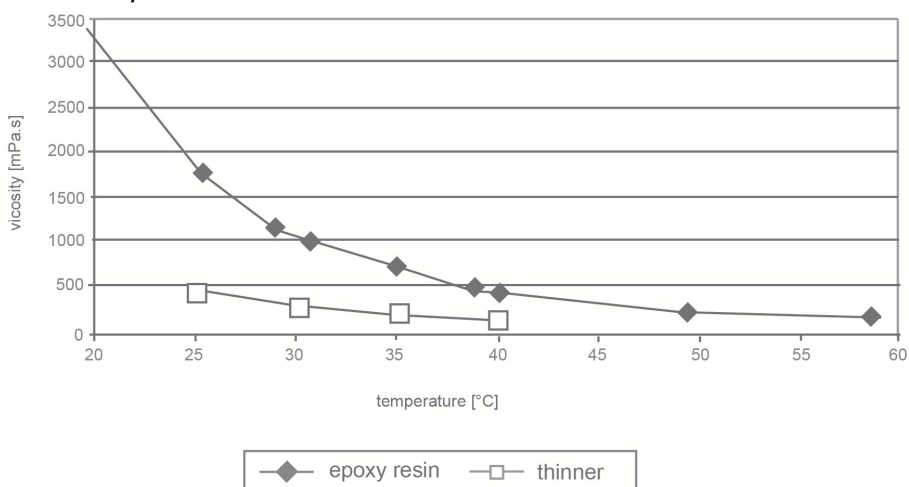
Trickling resin VUPOXY E – 2K is applicable for all kind of impregnating machines with blending equipment suitable for mixture of epoxy resin and thinner. The product is homogenous with perfect adhesion and mechanical and electrical strength of impregnated windings. It is typical for its low level of volatile substances.

Specification of the product:

E 07	<i>Liquid modified epoxy resin with the basis of bisphenol A</i>	
viscosity	at 25 °C (Brookfield)	1640 mPa.s
density	at 25 °C	1,13 g.cm ⁻³
Thinner AT 07	<i>Liquid amine thinner</i>	
	at 25 °C (Brookfield)	416 mPa.s
	at 25 °C	0,99-1 g.cm ⁻³

Processing data:

Pict. 1: Temperature – Viscosity curve



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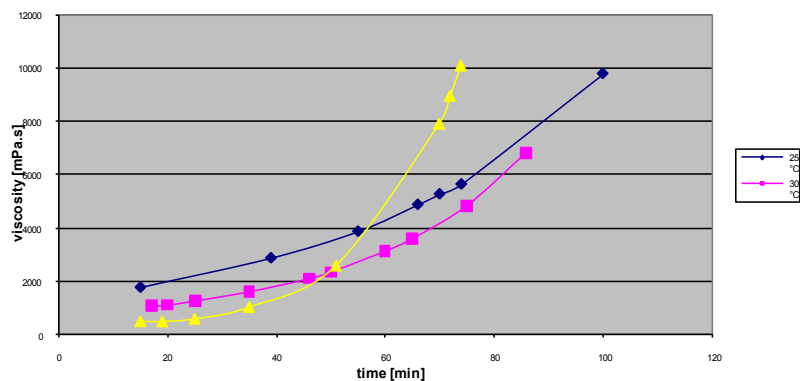


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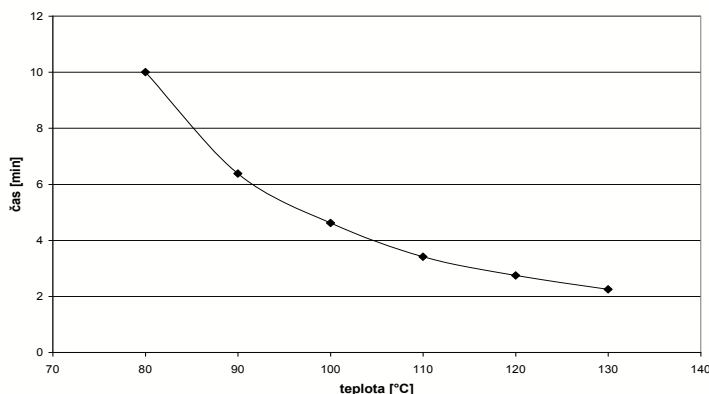


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Pict. 2:



Pict. 3: Gel- time – Temperature curve



Mechanical and electrical data:

After curing 0,5 h at 130 °C			
Mechanical strength Twisted coil	STN IEC 61033/A	23 °C	633,4 N
		130 °C	184,3 N
		155 °C	79,4 N
		180 °C	60 N
Electrical strength of enameled wire	STN EN 60243-1	23 °C	178 kV/mm
		180 °C	103 kV/mm
		after 23 °C/92%humidity /96hrs	55 kV/mm

Packing and storage:

Shelf time of VUPOXY E – 2K impregnating resin is min. 12 months . It is delivered in clean, non returnable drums in the amount agreed between the producer and client. The product has to be stored in tightly closed drums at temperature 18 – 25 °C. The opened dose should be immediately after using closed again.

The information provided herein accords with our knowledges about the subject on the date of publication. This information might be revised if new knowledges and experience will be available. The data provided fall within the normal range of product properties are related only to the specific material. These data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to set limits or used alone as the basis for design. The data are not intended for substitute of any testing that you might need to do for decision if the specific material is suitable for your particular purposes. Since VUKI ca not anticipate all variants in actual end-use conditions, VUKI makes no warranties and assumes no liability in connection with any use of this information. Nothing in this document is to be considered as a license to application or recommendation to infringe any patent rights.

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