

DVB-1000

Non-solvent-based insulation varnish



DVB-1000 is a VOC-free insulating varnish composed of water-based epoxy. This product can drastically improve work environment and is an innovative insulating varnish for impregnation which has never been developed or implemented previously in Korea.

Usage

For impregnation of a compressor motor for freezers

Specification

Type of varnish	One-component epoxy resin		
Product Features	<ol style="list-style-type: none">1. It features outstanding heat resistance. (Type H: 180°C)2. It is a VOC-free product.3. It features outstanding electrical properties.4. It features outstanding adhesiveness.5. It features outstanding drying performance.		
Thinner	DIW (water)	Storage stability (25 °C)	Over 6 months
Exterior	White turbid liquid		
Viscosity	Below 3 POISE	Curing conditions	4 hours at 150 °C
Specific gravity	1.01 ± 0.02	UL-certified	Type H (180 °C)-E93947
Curing time	Within 50 minutes (Can lid, 150 °C)	Storage conditions	Store in a shaded indoor space with sufficient ventilation.
Mixing ratio	One-component type	Shelf life	6 months from the manufacturing date (when storage conditions are met)

Product Properties (Physical Property Data)

Breakdown voltage	Above 9 KV (Twist Pair method, MW-35 Coil)
Volume resistivity	At least $1.0 \times 10^{14} \Omega \text{cm}$

How to Use

How to Use	<ol style="list-style-type: none">1. Mix evenly after adding the substances according to the designated mixing ratio.2. Preheat the substrate at 80 - 120 °C for 10 - 30 minutes to eliminate cutting oil and debris from the substrate.3. Maintain the surface temperature of the substrate at 40 - 50 °C.4. Impregnate it in well-mixed varnish for 2 - 5 minutes. (Impregnation in the vacuumed state can increase the penetrance.)5. Leave until the varnish does not fall off from the substrate (10 - 30 minutes at room temperature).6. Dry according to the designated curing conditions.
Caution	<ol style="list-style-type: none">1. When the varnish temperature is high, there is a risk of varnish turning into gel. So maintain the varnish temperature inside the tank at below 30 °C.2. Instructions above may vary depending on the type of substrate and the painting line conditions.

► The data shown above were obtained under the laboratory conditions, and the product properties may vary depending on work method and circumstances. Please refer to the property data listed above only as reference.