

# DVB-2177

## Non-solvent-based insulation varnish



DVB-2177 is a non-solvent-based insulating varnish of unsaturated polyester type and features type H (180 °C) heat resistance. This product is almost odorless and 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 stators and transformers of a motor

### Specification

Type of varnish	Two-component unsaturated polyester resin		
Product Features	<ol style="list-style-type: none"><li>1. It features outstanding heat resistance. (Type H: 180°C)</li><li>2. This product generates little THC while drying.</li><li>3. It features outstanding adhesiveness.</li><li>4. It features outstanding electrical properties.</li></ol>		
Thinner	DTB-7303	Storage stability (40°C) (A + B)	Over 5 days
Exterior	Transparent lemon yellow liquid		
Viscosity	26 - 32 POISE	Curing conditions	2 - 7 hours at 120 - 140 °C
Specific gravity	1.14 ± 0.02	UL-certified	Type H (180 °C)-E93947
Gel time (120 °C)	4 - 6 min.	Storage conditions	Store in a shaded indoor space with sufficient ventilation.
Mixing ratio	A : B = 100 : 1 (Weight)	Shelf life	6 months from the manufacturing date (when storage conditions are met)

### Product Properties (Physical Property Data)

Breakdown voltage	Above 7 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"><li>1. Mix evenly after adding the substances according to the designated mixing ratio.</li><li>2. Preheat the substrate at 80 - 120 °C for 10 - 30 minutes to eliminate cutting oil and debris from the substrate.</li><li>3. Maintain the surface temperature of the substrate at 40 - 50 °C.</li><li>4. Impregnate it in well-mixed varnish for 2 - 5 minutes. (Impregnation in the vacuumed state can increase the penetrance.)</li><li>5. Leave until the varnish does not fall off from the substrate (10 - 30 minutes at room temperature).</li><li>6. Dry according to the designated curing conditions.</li></ol>
Caution	<ol style="list-style-type: none"><li>1. Liquid B (hardener) is sensitive to heat. So store it in a refrigerated space.</li><li>2. 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.</li><li>3. Instructions above may vary depending on the type of substrate and the painting line conditions.</li><li>4. Please refer to the MSDS when handling the product.</li></ol>

► 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.