PRODUCT INFORMATION

ULTIMEG 2000-372
ANTI TRACKING
AIR DRYING ALKYD
CLEAR, GOLDEN
PIGMENTED VERSIONS AVAILABLE
AEROSOL VERSIONS AVAILABLE

ULTIMEG 2000-372 ANTI-TRACKING ENAMELS AND VARNISHES

GENERAL DESCRIPTION

The Ultimeg 2000-372 range of anti-tracking varnishes and enamels provide tough, impervious, insulating seals in difficult environments. The system dries rapidly in thin film to give very effective sealing off of electrical leakage paths together with excellent noise reduction characteristics. The cured product conforms to BS 5629 type 1.1 (IEC 464), has excellent resistance to transformer oils and moisture, and is suitable for use in Class B and F insulating systems. A low hazard fungicide is included in the varnished enamels, which gives a 0 rating (no growth) fungal resistance when tested to BS 3900 PTG6. This makes the system particularly suited for tropicalisation and for use on equipment working in warm humid climates.

APPLICATION

Suitable for noise reduction in small transformers and moisture protection, anti-tracking and tropicalisation on all types of electrical equipment.

SPECIFICATION

<table>
<thead>
<tr>
<th>Property</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viscosity</td>
<td>170-220 secs BS3900 PTA6 B4 flow cup at 25°C</td>
</tr>
<tr>
<td>Non-volatile content</td>
<td>40-42% (Clear &amp; golden versions)</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.96-99 (Clear &amp; golden versions)</td>
</tr>
<tr>
<td>Flashpoint</td>
<td>27°C</td>
</tr>
<tr>
<td>Shelf life</td>
<td>12 months at 21°C</td>
</tr>
<tr>
<td>Drying time</td>
<td>Touch dry 15 minutes</td>
</tr>
<tr>
<td></td>
<td>Hard dry 45-60 minutes</td>
</tr>
<tr>
<td>Full cure</td>
<td>24 hour</td>
</tr>
</tbody>
</table>

NOTE: Due to the introduction of improvements from time to time the right is reserved to supply products that may differ slightly from those illustrated or described in this publication.

Email: aev@aev.co.uk
www.aev.co.uk

AEV PLC,
Marion Street, Birkenhead,
Wirral. U.K CH41 6LT
Tel: ++ 44 (0) 151 647 3322
Fax: ++ 44 (0) 151 647 3377
ULTIMEG 2000-372

PROCESSING

Method | Brush, dip or spray.

Viscosity | Brush | Dip | Spray
| As supplied | See workshop practice | Thin with T4 thinner or use aerosol.

Reducer | Ultimag 2000 T4 thinner.

WORKSHOP PRACTICE

Procedure for dip impregnation of smaller components.

1. Thin Ultimag 2000-372 with T4 thinners such to achieve a desired film build on components, (graphs are available on request).
2. Immerse the components completely into the varnish for 1-10 minutes.
3. Drain components for 15-30 minutes over the varnish.
4. Cure
   a) At ambient 45 minutes - 2 hours components can be handled, but only 50-70% of properties have developed and there is still residue solvent to be eliminated. 24-48 hours 95% of properties are developed and there are only trace quantities of solvent still present within components whereas in the majority of cases this trace of solvent is diffused slowly into the atmosphere causing no further problem, if the components are used or packed in materials such as polystyrene some attack can occur.
   b) The cure can be accelerated heating the components for 2 - 3 hours at 80°C will give an equivalent cure to 24 - 48 hours at ambient. With heavily taped, tightly wound or larger components there is a risk of solvent entrapment. This risk is reduced by using a heat cure process.

The process each customer chooses depends on component size or design, film required, cure temperature and oven efficiency and thus only a guide can be given.

The cure time’s chosen is dependant on the size and type of component. Typical figures are given.

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### ULTIMEG 2000-372

#### CURE TIMES

<table>
<thead>
<tr>
<th>Time</th>
<th>Temperature (deg C)</th>
<th>Comment</th>
</tr>
</thead>
<tbody>
<tr>
<td>15 mins</td>
<td>21°C</td>
<td>Touch dry</td>
</tr>
<tr>
<td>45-60 mins</td>
<td>21°C</td>
<td>Components handleable</td>
</tr>
<tr>
<td>24-48 hrs</td>
<td>21°C</td>
<td>Cured</td>
</tr>
<tr>
<td>2-3 hrs</td>
<td>80°C</td>
<td>Cured</td>
</tr>
</tbody>
</table>

#### PROPERTIES OF CURED VARNISH

- **Breakdown voltage**: 20°C 1200v/ml
- **Comparative tracking index**: 180
- **Flexibility**: Pass 5mm (3/16") mandrel

#### HEALTH & SAFETY

Refer to Material Safety Data Sheet available.

#### PACKAGING

- **25 ltr**: Clear, golden.
- **5 ltr**: Clear, golden, devolac grey, dark grey, red, white, black, salvameg blue.
- **400 ml aerosols**: Clear, golden, red, dark grey, black.

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