



## PRODUCT INFORMATION

### **ULTIMEG 2000-372#**

ANTI TRACKING

AIR DRYING ALKYD

CLEAR, GOLDEN

PIGMENTED VERSIONS AVAILABLE

CLASS H – UL File no. E220579

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 BSEN 600464 type 1.1 (IEC600464), has excellent resistance to transformer oils and moisture, and is suitable for use in Class H insulating systems. The system has been tested to ASTM D2307 and achieved 20,000hrs rating at >180°C and is recognised to UL1446 file number E220579. 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

Viscosity	200-300 cPs at 25°C
Non-volatile content	38-42% (Clear & golden versions)
Specific Gravity	0.96-99 (Clear & golden versions)
Flashpoint	27°C
Shelf life	12 months at 21°C
Drying time	Touch dry 15 minutes
	Hard dry 45-60 minutes
	Full cure 24 hour

**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.

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## ULTIMEG 2000-372#

### PROCESSING

Method	Brush, dip or spray.		
Viscosity	Brush As supplied	Dip See workshop practice	Spray Thin with T4 thinner or use aerosol.
Reducer	Ultimeg 2000 T4 thinner.		

### WORKSHOP PRACTICE

Procedure for dip impregnation of smaller components.

1. Thin Ultimeg 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 chosen is dependant on the size and type of component. Typical figures are given.



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**CURE TIMES**

Time	15 mins	45-60 mins	24-48 hrs	2-3 hrs
Temperature (deg C)	21°C	21°C	21°C	80°C
Comment	Touch dry	Components handleable	Cured	Cured

**PROPERTIES OF CURED VARNISH**

Relative temperature index	UL1446	180°C	
Dielectric strength	ASTM D115	72	kV / mm
After 24hours immersion in water	ASTM D115	30	kV / mm
Time to Track	ASTM D2303	222	min
Flexibility	ASTM D522	Pass 5mm	(3/16") mandrel

**HEALTH & SAFETY**

Refer to Material Safety Data Sheet available.

**PACKAGING**

25 ltr, 5 ltr tins	Clear, golden.
5 ltr tins	Clear, golden, devolac grey, gentian blue, dark grey, red, white, black, salvameg blue.
400 ml aerosols	Clear, golden, red, dark grey, gentian blue, black.

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