

## PRODUCT INFORMATION

### **ULTIMEG 2000-372**

ANTI TRACKING

AIR DRYING ALKYD

RED

AEROSOL VERSIONS AVAILABLE

CLASS H – UL File no. E220579

### **ULTIMEG 2000-372 ANTI-TRACKING VARNISH RED**

#### GENERAL DESCRIPTION

The Ulimég 2000-372 red anti-tracking varnish provides a tough, impervious, insulating seal 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 (IEC464), 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	80-110 secs	B4 flow cup at 25°C
Nonvolatile content	40 - 45%	
Specific Gravity	0.98 - 1.05	
Flash point	27°C	
Shelf life	12 months at 21°C	
Drying time	Touch dry	15 minutes
	Hard dry	45-60 minutes
	Full cure	24 hours

**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 Red

### 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.

When Ultimeg 2000 372 Red is being used in a dip tank it is advisable to fit a stirring system otherwise settlement of the pigment can occur.

**ULTIMEG 2000-372 Red**

**CURE TIMES**

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

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
BREAKDOWN VOLTAGE	20°C	81 kV /mm
ASTM D115 after 24hr immersion in water		31 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  
400 ml aerosols

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