



PRODUCT INFORMATION

ULTIMEG 2000-378

ANTI TRACKING
AIR DRYING ALKYD
CLEAR

ULTIMEG 2000-378 ANTI-TRACKING ENAMELS AND VARNISHES

GENERAL DESCRIPTION

The Ultimeg 2000-378 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 (IEC 85), 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. Supplied at a ready for use viscosity for dip and spray application.

SPECIFICATION

Viscosity	50 - 60 secs BS3900 B4 flow cup at 30°C 1.0 – 1.2 Poise at 30°C
Non-volatile content	35 - 40%
Specific Gravity	0.94 - 0.96
Colour	Clear yellowish
Flashpoint	27°C
Shelf life	12 months at 21°C
Drying time	Touch dry 16 minutes Hard dry 45-60 minutes Full cure 24 hours

PROCESSING

Method	Dip or spray.
Viscosity	Dip Spray As supplied



Reducer

Ultimeg 2000 T4 thinner.

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WORKSHOP PRACTICE

Procedure for dip impregnation of smaller components.

1. Ultimeg 2000-378 is supplied at a ready for use viscosity.
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 times chosen are dependent on the size and type of component. Typical figures are given.

CURE TIMES

Time	16 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

Breakdown voltage	20°C	47.2 Kv /mm
Comparative tracking index		180
Flexibility		Pass 5mm (3/16") mandrel



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HEALTH & SAFETY

Refer to Material Safety Data Sheet available.

PACKAGING

25 ltr, 5 ltr tins

AEV Ltd, Issue no. 5 Date: 03/17