



TECHNICAL BULLETIN  
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**PRODUCT INFORMATION**

**ULTIMEG 2000/250**

EPOXY-PHENOLIC  
IMPREGNATING  
FREON RESISTANT  
CLASS H (180°C)

**ULTIMEG 2000/250 IMPREGNATING VARNISH**

**GENERAL DESCRIPTION**

ULTIMEG 2000/250 is a phenolic modified epoxy varnish, which produces tough chemically resistant insulating films with good bond strengths at all operating temperatures up to Class 'H' (180°C). The varnish gives excellent penetration into windings with clean drainage and low secondary drainage properties. The cured product has exceptional resistance to chemicals and moisture. The varnish is suitable for use in hermetic and semi-hermetic systems containing Arcton and Freon refrigerants including R21, R22, R23, R32, R125, R134a, R407C, mineral oil and ester oil.

**APPLICATION**

A speciality product specifically designed for impregnation of hermetic and semi-hermetic pump motors where Freon resistance is essential.

**SPECIFICATION:**

VISCOSITY	75-90 cPs at 25°C
NON VOLATILE CONTENT	38 - 42%
SPECIFIC GRAVITY	0.98 – 1.01
FLASHPOINT	26°C
SHELF LIFE	18 months at 20°C

**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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**PROCESSING**

METHOD	-	Cold or hot dip
VISCOSITY	-	<u>Cold Dip</u> <u>Hot Dip</u> -As supplied-
REDUCER	-	AEV ULTIMEG 2000/ T4 & T66

**WORKSHOP PRACTICE**

Varnish in impregnating tanks should be checked for viscosity on a regular basis to ensure consistent impregnation.

A temperature/viscosity graph is available on request.

Solvent loss from the tank can be reduced by keeping the tank lidded when not in use. Regular additions of fresh varnish to the tank are recommended to maintain stability.

Tank samples will be analysed free of charge by our laboratories.

The cure time chosen for impregnation is dependent on the size and type of component, and the oven efficiency. Typical figures are given.

Windings should be preheated to relieve stresses in wire enamel.

**IMPORTANT** It is necessary to use an initial low bake of two hours to 100°C to prevent bubbling before curing at the higher temperatures below.

**CURE SCHEDULE**

TIME (hours)	4	3
TEMPERATURE (°C)	150	160

In severe environments to maximise chemical protection an extended cure of 6-10hours is recommended

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**PROPERTIES OF CURED VARNISH**

BOND STRENGTH	20°C	22.7 kg
ASTM D2519	155°C	5.8 kg
DIELECTRIC STRENGTH	20°C	150 kV/ mm
ASTM D115	90°C	140 kV/mm
	24 hr immersion in water	140 kV/mm
FLEXIBILITY	Pass 6mm (1/4") mandrel	

**HEALTH & SAFETY**

Refer to Material Safety Data Sheet available.

**PACKAGING**

210 ltr, 25 ltr, 5 ltr

AEV Plc Issue no.5 Date: 10.06

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