



PRODUCT INFORMATION

**ULTIMEG 2002AQ**

EPOXY  
TOUGH AND RESILIENT  
EMULSION  
“0”VOC  
CLASS H (180°C)  
FREON RESISTANT  
UL RECOGNISED

**ULTIMEG 2002AQ CLASS H EPOXY BASED IMPREGNATING EMULSION**

GENERAL DESCRIPTION

ULTIMEG 2002AQ is a water based epoxy emulsion, which produces a tough resilient film with good electrical properties up to Class H (180°C). Where higher class insulation systems are employed this product can be used in components working up to 200°C. Being water based it is non-flammable, low odour, does not require special storage facilities, and allows greater operator safety during processing. The emulsion has a “0” VOC (volatile organic content) giving no environmental emissions. It exhibits excellent penetration through windings with clean drainage and low secondary drainage properties. The cured product has exceptional resistance to chemicals and moisture. The varnish is suitable to use in hermetic and semi-hermetic systems containing refrigerants and compressor oils.

APPLICATION

A “0”VOC, environmentally friendly emulsion for the impregnation of transformers, chokes, stators, relays and fields. The material has excellent chemical resistance and is also suitable for hermetic and semi-hermetic pump motors.

SPECIFICATION:

VISCOSITY	20 - 80 cps at 25°C
NON VOLATILE CONTENT	48 - 52%
SPECIFIC GRAVITY	1.09
SHELF LIFE	12 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 - Dip impregnation
- VISCOSITY - As supplied
- REDUCER - Tap water

**WORKSHOP PRACTICE**

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

Regular additions of fresh varnish to the tank are recommended to maintain stability. A tank turnover of at least 20% per month is recommended, viscosity periodically controlled.

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

Emulsion systems are sensitive to frost exposure and the material must be stored and used in frost-free areas.

In dip tanks there is a tendency for emulsion systems to slowly re-agglomerate regular stirring is recommended

**It is recommended that a Stainless Steel or suitably coated tank be used with this product.**

**CURE PRACTICE**

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

A pre polymerisation of 1-2 hrs @ 90°C is often employed as foaming can be a problem of water based varnishes when exposed to high temperatures.

TIME (Hours)	4	3
TEMPERATURE	150°C	165°C

**PROPERTIES OF CURED VARNISH**

BOND STRENGTH	ASTM D2519	25°C	196N
		150°C	29N
DIELECTRIC STRENGTH		23°C	3011 V/mm
		24hrs immersion	2279 V/mm
		In distilled water	

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**HEALTH & SAFETY**

Refer to Material Safety Data Sheet available.

**PACKAGING**

210 ltr, 25 ltr, 5 ltr

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