



PRODUCT INFORMATION

ULTIMEG 2000/620X

ACRYLIC
RAPID DRYING
WORKING TEMPERATURE - 55 TO 125°C

ULTIMEG 2000/620X ACRYLIC CONFORMAL COATING

GENERAL DESCRIPTION

Ultimeg 2000/620X features the following properties:-
Good moisture resistance. Excellent sharp edge coverage. Solder through properties. Rapid drying. Fluoresces under U.V. light for fault inspection. Reflow properties, where touch up is required. Working temperature limits - 55 °C to 125°C. Not corrosive to cadmium or nickel. Conforms to BS 5917 and MIL-I-46058C. Type AR1.

APPLICATION

A tough, flexible, conformal coating for printed circuit boards and small components where moisture resistance and excellent sharp edge coverage is required.

SPECIFICATION:

VISCOSITY	2.00 - 2.75 poise
NON VOLATILES	33-35%
SPECIFIC GRAVITY	0.91
FLASHPOINT	20°C
STORAGE LIFE	Minimum 24 months at 20 °C

PROCESSING

METHODS	Dip, brush or spray
VISCOSITY	Dip and brush as supplied Spray - thin to 30 secs. BS 3900 PT A6 B4 Flow Cup 20°C
REDUCER	T62 or T4

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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WORKSHOP PRACTICE

If the material is applied by dip application, evaporation of solvent will cause an increase in viscosity and hence an increase in film build. Viscosity can be controlled by use of simple measuring systems such as flow cups or hydrometers and adding reducer when required. Information is available upon request.

When dip coating best results are obtained if components are withdrawn from the varnish at rates of 5 - 15 cm per minute.

The varnish can be spray applied from aerosols or by conventional spray equipment. When using conventional spray equipment it is necessary to thin the material with AEV reducer to approximately 35 - 40 seconds BS or Ford No. 4 cups.

CURE SCHEDULE

	Touch Dry Less than 15 min	Through Dry Less than 30 min	Forced Dry 25 min
TEMPERATURE	20°C	20°C	60°C

Optimum properties will develop in 24 hours at normal ambient temperatures.

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TECHNICAL BULLETIN
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PROPERTIES OF CURED VARNISH (typical figures)

Breakdown voltage at 20°C	ASTM D115	Dry	160	kV/mm
		After 24 hrs water immersion	152	kV/mm
Volume resistivity	IEC 93		>10 ¹³	ohm.cm
Film Flexibility	Passes 1/8 inch mandrel test			
Thermal Conductivity	estimated		0.17-0.2	W/M/K
Salt Spray Resistance	Meets requirements of ASTM B1117			96 hrs @ 35°C
Humidity Resistance	Passes DIN 50017 Greater			96 hrs at 35°C
Thermal Shock Test	Passes MIL-1-46058C			
Chemical Resistance	Good			
Adhesion	Good			
Dielectric Constant	ASTM D150		2.565T	1MHZ & 25°C
Film Weight (dip application)			20-25	Gram/M2

PACKAGING

1 litre, 5 litre containers.
400ml Clear Aerosols.

HEALTH & SAFETY

Refer to Material Safety Data Sheet available

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