QUALITIES THAT BOND

PRODUCT INFORMATION

ULTIMEG 2000/620X
ACRYLIC
RAPID DRYING
WORKING TEMPERATURE - 55 TO 130°C

ULTIMEG 2000/620X ACRYLIC CONFORMAL COATING

GENERAL DESCRIPTION
Ultimag 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 130°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:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
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<tbody>
<tr>
<td>VISCOSITY</td>
<td>2.00 - 2.5 poise</td>
</tr>
<tr>
<td>NON VOLATILES</td>
<td>34 ∀ 1</td>
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<tr>
<td>SPECIFIC GRAVITY</td>
<td>0.91</td>
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<tr>
<td>FLASHPOINT</td>
<td>20°C</td>
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<tr>
<td>STORAGE LIFE</td>
<td>Minimum 24 months at 20 °C</td>
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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 |

PACKAGING
1 litre, 5 litre containers.
400ml Clear and Golden Aerosols.

HEALTH & SAFETY
Refer to Material Safety Data Sheet available.

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 2000/620X

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When dip coating best results are obtained if components are withdrawn from the varnish at rates of 5 - 15 cm per minute.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

<table>
<thead>
<tr>
<th></th>
<th>Touch Dry</th>
<th>Through Dry</th>
<th>Forced Dry</th>
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<tbody>
<tr>
<td>Less than 15 min</td>
<td>Less than 30 min</td>
<td>25 min</td>
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TEMPERATURE

- 20°C
- 20°C
- 60°C

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

PROPERTIES OF CURED VARNISH (typical figures)

- Breakdown voltage at 20°C: 3310 volts/mil
- After 24 hrs water immersion: 2560 volts/mil
- Film Flexibility: Passes 1/8 inch mandrel test
- Salt Spray Resistance: Meets requirements of ASTM B1117
- 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 65T @ 1MHZ & 25°C 2.5
- Film Weight (dip application): Gram/M5 20-25

AEV Plc Issue no. 1 Date:09/99

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