PRODUCT INFORMATION
ULTIMEG 2000/200FR

ISOPHTHALIC POLYESTER
RED ENVELOPING
TOUGH AND FLEXIBLE
HIGH FLASH POINT
CLASS H (180°C)

ULTIMEG 2000/200FR RED POLYESTER ENVELOPING VARNISH

GENERAL DESCRIPTION
ULTIMEG 2000/200FR is a high flash, modified isophthalic alkyd, which produces tough high build resilient enveloping films suitable for all operating temperatures up to Class ‘H’ (180°C). The varnish gives maximum protection to the windings with an asphetically good finish and low secondary drainage properties. The cured product meets the BS 5629 specification, gives exceptionally good resistance to moisture and insulating oils, together with a high degree of mechanical protection for the winding coated. Good flexibility is shown around fly leads, and compatibility with all normal insulating systems is achieved. This material passes the needle flame test IEC 695-2-2 1980.

APPLICATION
A quality enveloping varnish for finishing of transformers. Chokes, relays and fields.

SPECIFICATION:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>VISCOSITY</td>
<td>50 - 100 poise @ 25°C</td>
</tr>
<tr>
<td>NON-VOLATILE CONTENT</td>
<td>53 - 57%</td>
</tr>
<tr>
<td>SPECIFIC GRAVITY</td>
<td>0.98 - 1.02</td>
</tr>
<tr>
<td>FLASHPOINT</td>
<td>43°C</td>
</tr>
<tr>
<td>SHELF LIFE</td>
<td>18 months at 20°C</td>
</tr>
</tbody>
</table>

PROCESSING

<table>
<thead>
<tr>
<th>Property</th>
<th>Method</th>
<th>VISCOSITY</th>
<th>REDUCER</th>
</tr>
</thead>
<tbody>
<tr>
<td>METHOD</td>
<td>Cold or hot dip</td>
<td>As supplied</td>
<td>AEV ULTIMEG 2000/ T4</td>
</tr>
</tbody>
</table>

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.
ULTIMEG 2000/200FR

WORKSHOP PRACTICE
The approximate film thickness per coat is 150 - 200. This may be reduced by thinning or increased by using a multi dip process.

A typical process is:
Preheat 90°C
Dip 1 min
Drain 15 min
2nd Dip 1 min
Drain 15 min
Cure 4 hours @ 130°C

The number of dip and drain processes may be increased until the required build is obtained before stoving.
A temperature/viscosity graph is available on request.
Solvent loss from the containers can be reduced by keeping them lidded when not in use.
The cure time chosen is dependent on the size and type of component, and the oven efficiency. Typical figures are given.

CURE SCHEDULE
<table>
<thead>
<tr>
<th>TIME (hours)</th>
<th>TEMPERATURE (°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td>120</td>
</tr>
<tr>
<td>4</td>
<td>130</td>
</tr>
</tbody>
</table>

PROPERTIES OF CURED VARNISH
RESISTANT TO Alkali, acids, solvents, transformer oil.
BREAKDOWN VOLTAGE 20°C 2000 v/mil
90°C 1800 v/mil
24 hr immersion in sea water 950 v/mil
FLEXIBILITY Pass 5mm (3/16") mandrel

HEALTH & SAFETY
Refer to Material Safety Data Sheet available.

PACKAGING
25 ltr, 5 ltr

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