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PRODUCT INFORMATION

ULTIMEG 2000/530GC
SOLVENTLESS
CLASS 180
UNSATURATED ISOPHTHALIC POLYESTER
HIGH BUILD REINFORCED COATING
BLUE

ULTIMEG 2000/530GC POLYESTER TRICKLE REINFORCING RESIN

GENERAL DESCRIPTION

ULTIMEG 2000/530GC is an unsaturated isophthalic polyester resin that gives tough films of 250-400µm that work up to 180°C. It is designed to give reinforcement and strength to susceptible parts of rotating electrical equipment such as on single wires around the commutator and where the coil leads starts and finishes. Application of a thin stream of the material to the hot rotating winding spreads to give an evenly distributed gelled film with minimal or zero drainage. This film when cured has exceptionally good mechanical and thermal properties.
The material may also be used as an enveloping coating to give extra protection to end windings or as a wet winding impregnant. In these applications the cured resin has excellent electrical, mechanical and chemical resistance characteristics and gives windings with improved heat transfer, and noise reduction properties.

APPLICATION

A trickle resin used to give reinforcement to susceptible parts of rotating electrical equipment such as the single wires on the commutator and where the coil leads starts and finishes.

SPECIFICATION:

VISCOSITY	35 - 45 poise.
NON-VOLATILE CONTENT	100% reactive polymer
SPECIFIC GRAVITY	1.19 - 1.23
COLOUR	blue
FLASHPOINT	31°C

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SHELF LIFE 3 months at 20°C (out of direct sunlight).

- 3 month stability after addition of 1% UC530GC peroxide activator.
- 12 month stability prior to addition of peroxide activator.
- The activator can be added by AEV or can be supplied to customers in separate bottles.

PROCESSING

METHOD - Trickle

VISCOSITY - As supplied

THINNERS - Not applicable

WORKSHOP PRACTICE

1. When trickling onto hot windings, ensure adequate ventilation. See material safety data sheet.
2. When curing, components should not come into contact with phenolic varnish or vapours; as such materials inhibit the cure of 530GC.
3. Storage at temperatures even slightly above room temperature or contamination with rust or metal salts will have an adverse effect on the stability of the product.

Typical cure schedules for small open static windings are shown below. (Temperatures are those of components).

CURE SCHEDULE

TIME (minutes)	90	70	50	40	30
TEMPERATURE (°C)	120	130	140	150	160

Infrared lamp or Induction heating can be used to achieve rapid cure times to allow for fast processing.

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PROPERTIES OF CURED VARNISH

DIELECTRIC STRENGTH:		120-150 Kv/mm
BOND STRENGTH:	23°C	195 Newtons
Twisted coil	155°C	80 Newtons
	180°C	50 Newtons

HEALTH & SAFETY
Refer to Material Safety Data Sheet available.

PACKAGING
25 kg, 5 kg.

AEV Plc Issue no. 1 Date: 08.05

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