ELANTAS
Electrical Insulation

Technical Data Sheet

Secondary Insulation

Epoxylite® E 8117 Green

Two-Component Epoxy Stator Paste

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Epoxylite® E 8117 Green

Product Description

Epoxylite® E 8117 is a two-component, room temperature cure, mineral-filled epoxy resin.

Areas of Application

Buttering or sealing of stator end windings

Features and Benefits

- Provides environmental protection for stators that do not require full encapsulation
- Highly thixotropic paste
- Chemical and moisture resistant

Application Method

- Spatula

Transportation / Storage

Store below 25°C / 77°F in a dry controlled environment out of direct sunlight. This material should be suitable for use stored under these conditions in the original sealed containers for twelve (12) months from the date of shipment.

Failure to store the product as recommended above may lead to deterioration in product performance.

Mix individual components thoroughly before use.

Health / Safety

Refer to the Material Safety Data Sheet.

Typical Properties of Material as Supplied

Property	Conditions	Value		Units
		Epoxylite® E 8117 Yellow Resin	**Epoxylite® C 8117 Blue Hardener**	
Appearance	25°C / 77°F	Opaque Yellow Paste	Opaque Blue Paste	
Weight per Gallon	25°C / 77°F	13.1 - 13.5	12.5 - 12.9	pounds
Flash Point	ASTM D93	> 94 > 201	> 94 > 201	°C °F
Mix Ratio	Parts by Weight Parts by Volume	100 100	100 105	

Application

Mix Resin and Hardener in the prescribed ratio until uniform in color.

Pot life is 1½ - 2 hours at room temperature. Mix only as much product as can be used in that amount of time.

Fill slots first, then apply to end turns, working material carefully into all gaps and separations. Apply an even thickness of 1/8 to 1/4 inches.

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Curing Schedule

Mixed material will cure to a tacky gel within 2 - 3 hours at room temperature. At this point, the surface may be smoothed using xylene or lacquer thinner applied with a soft brush or cloth (do not work the solvent into the material).

Within 6 - 8 hours cure will have progressed sufficiently to permit grinding of the bore.

Full cure will occur with 24 hours. Cure can be accelerated with heat lamps or by heating for 1 - 2 hours at 65°C / 150°F.

Typical Mechanical Properties

Property	Conditions	Value	Units
Hardness	Shore D	86	
Glass Transition Temp. (Tg)	TMA	74	°C
Water Absorption	24 hours @ 25°C / 77°F	0.2	%

Typical Electrical Properties

Property	Conditions	Value	Units
Dielectric Strength ASTM D149	25°C / 77°F - 30 mils	470	volts/mil
Dielectric Strength ASTM D149	25°C / 77°F - 30 mils After 24 hours in water	350	volts/mil
Volume Resistivity	ASTM D257 – 25°C / 77°F	3.6×10^{14}	ohm-cm
Dissipation Factor	1 kHz – 25°C / 77°F 1 kHz – 50°C / 122°F 1 kHz – 100°C / 212°F	0.02 0.02 0.16	
Dielectric Constant	1 kHz – 25°C / 77°F 1 kHz – 50°C / 122°F 1 kHz – 100°C / 212°F	2.8 2.9 4.3	

The above properties are typical values and are not intended for specification use.