

Technical Data Sheet

Secondary Insulation

RanVar™ R2003 VT RTC

(RanVar™ 2003X-3A RT Cure Copolymer)

Copolymer Impregnating Resin

RanVar™ R2003 VT RTC

Product Description

RanVar™ R2003 VT RTC is a 100%-reactive, unsaturated copolymer resin in vinyl toluene monomer. It requires the addition of a peroxide catalyst for proper cure.

Areas of Application

Impregnation of motor stators and armatures

Features and Benefits

- Chemically promoted for heatless cure
- Energy savings - no bake required
- High bond strength
- Excellent chemical and moisture resistance
- Class H UL recognized

Application Methods

- Trickle
- Pour through

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 two (2) months from the date of shipment.

Keep containers tightly sealed to minimize evaporation. Refrigeration is recommended for long term storage.

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

Mix product thoroughly before use

See Technical Bulletin TI-4001 for tank maintenance instructions

Health / Safety

Refer to the Material Safety Data Sheet.

Typical Properties of Material as Supplied

Property	Conditions	Value	Units
Viscosity	25°C / 77°F	600 - 1000	cP
Gel Time	100 g - 25°C / 77°F	20 - 30	minutes
Catalyst	3% by weight	ELAN-Plus™ MEKP-9 Red Catalyst	
Viscosity Reducer		ELAN-Plus™ BS-217 Diluent	
Gel Time Adjuster		ELAN-Plus™ BS-6440 Inhibitor	
Weight per Gallon	25°C / 77°F	8.7 - 9.1	pounds
Flash Point	ASTM D93	53 127	°C °F

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Application / Curing Schedule

Add ELAN-Plus™ MEKP-9 Red Catalyst in amount specified above and mix thoroughly. Meter mix dispensing equipment may be used.

Apply resin immediately to windings by trickle or pour-through.

Resin will gel within 30 minutes at room temperature. Allow 24 hours to develop full properties.

Typical Mechanical Properties

Property	Conditions	Value	Units
Twisted Coil Bond Strength ASTM D2882 over MW 35	25°C / 77°F	31	pounds
	150°C / 302°F	7	pounds
Hardness	Shore D	80	

Typical Electrical Properties

Property	Conditions	Value	Units
Dielectric Strength	ASTM D149	3000	volts/mil
Dielectric Strength	ASTM D149 After 24 hours in water	2500	volts/mil

Underwriters Laboratories Recognition (ELANTAS File E75225)

Wire Construction	Helical Coil	Twisted Pair
NEMA MW16	Class 155	Class 220
NEMA MW35	Class 180	Class 180
NEMA MW76	Class 180	Class 180

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

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