ELANTAS
Electrical Insulation

Technical Data Sheet

Secondary Insulation

RanVar™ B2-204

Two-Component Epoxy Adhesive System

ELANTAS PDG, Inc.
5200 North Second Street
St. Louis, MO 63147
USA
Tel +1 314 621-5700
Fax +1 314 436-1030
info.elantas.pdg@altana.com
www.elantas.com

RanVar™ B2-204 Epoxy

Product Description

RanVar™ B2-204 is an unfilled, 100%-solids, two-component epoxy resin system.

Areas of Application

- Excellent bonding resin for mica tape as used in the manufacture and repair of turbine generators
- General-purpose adhesive for bonding of electrical components

Features and Benefits

- Room temperature cure
- Short gel time for rapid processing
- Moisture and chemical-resistant
- Medium viscosity

Application Methods

- Spatula or stiff brush.

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.

The Resin component may crystallize after extended storage. See ELANTAS PDG *Technical Bulletin TI-1000* for instructions.

Health / Safety

Refer to the Material Safety Data Sheet.

See ELANTAS PDG Technical Bulletin *TI-100 - Handling Precautions for Epoxy Resins* for additional information.

Typical Properties of Materials as Supplied

Property	Conditions	Value		Units
		RanVar™ B2-204A Resin	**RanVar™ B2-204B Hardener**	
Viscosity	25°C / 77°F	7,000 - 11,000	100 - 200	cP
Weight per Gallon	25°C / 77°F	9.5 - 9.9	8.2 - 8.6	pounds
Flash Point	ASTM D93	> 94 > 201	> 94 > 201	°C °F
Mix Ratio	Parts by weight Parts by volume	100 100	20 23	

RanVar™ B2-204 Epoxy

Typical Properties of Mixed Material

Property	Conditions	Value	Units
Viscosity	25°C / 77°F	3,000 - 5,000	cP
Gel Time	25°C / 77°F	30 - 60	minutes
Volatile Organic Content	ASTM D6053	0.1 [1]	pounds / gallon

[1] VOC test methods and limits vary widely by regulatory jurisdiction and product application. The value above was obtained by curing a thin film under specific laboratory conditions (2 grams - 1 hour - 150°C). Contact your ELANTAS PDG representative regarding alternate methods.

Application / Curing Schedule

Mix Resin and Hardener in ratio prescribed above until homogeneous.

Mixed material will harden with 90 - 120 minutes at room temperature. Allow 72 hours to develop full properties.

Alternatively, allow to harden, then cure for 2 hours at 80°C / 176°F - or -

Allow 24 hours at room temperature then cure for 2 hours at 66°C / 150°F.

The cure schedules above are based on time after the unit reaches the specified temperature and are recommendations only. The user is responsible for determining the optimum cure conditions for his application.

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