



Curing Agents

epoxa us™ 200-01B

Description

epoxa us™ Curing compound 200-01B is a medium viscosity semi-flexible system that when mixed with epoxa us 200-01A resin creates a solid with excellent electrical and mechanical properties. It is designed for the encapsulation of electronics, power cables and diverse type electrical dielectric encapsulation applications in general.

Applications

- * Dielectric compound for motors and generators
- * Electronic encapsulation
- * Anchoring non conductive applications
- * Cable permanent separator
- * Marine and aircraft systems
- * Corrosion resistant coatings

Key Features and Benefits

- * Equal mixing ratio by volume
- * Room temperature curing or by applying moderate heat
- * Minimal exothermic and contraction properties, does not affect components sensitive to heat or pressure
- * Semi flexible, excellent resistant against impact and thermal shock
- * Resistant to water and chemical products

Sales Specification

Property	Units	Value	Test Method/Standard
Amine value	mg/g	375	ASTM D2896
Viscosity at 25°C	cP	16000-20000	Standard Method
Color	Visual	yellow	Standard Method

Typical Properties

Property	Units	Value	Test Method/Standard
Equivalent weight, approx.		98	
Density @ 20 °C	lbs/gal	12.15	

200-01B

Flash point	°C	>266	ASTM D56
Appearance		Yellow	
Mix ratio with			
epoxa us 200-01A	by volume	100 to 100	

Performance Properties

Properties of epoxa us 200-01B with epoxa us 200-01A

Components	Method	Units	Value
epoxa us 200-01A		pbw	100
epoxa us 200-01B		pbw	100

Handling Properties

25°C

Viscosity, Mixed		cP	10000
Peak Exotherm		°C	104
Pot life, 250 g, 25 °C		min	60

Cured Properties

Heat Deflection Temperature	ASTM D648	°C	64
Tensile Strength	ASTM D638	kg/cm ²	560
Tensile Elongation		%	25

Starting formulation encapsulation compound

Compounds	Units	Value
200-01A	pbw	100
200-01B	pbw	100

Physical Properties

Percent of solids epoxa us 200-01B		100
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200-01B

Pot life at 25 °C	minutes	60
Dry times		
Dust-free	hours	75
Tack-free	hours	2
Through-cure	hours	3-4

Properties

Compressive Strength		1991
Tensile Strength	psi/sq in	7965
Hardness D Shore	psi/sq in	80
Tensile Elongation	25c / %	25%
Thermal Classification	f / c	266 / 130
Dielectric Constant	25c / 100 Hz	4.7
Dissipation Factor	25c / 100Hz	0.065
Volume Resistivity	25c / ohm-cm	2.20×10^{13}

Resistance to Chemichals

Resistant	24 hour immersion, less than 50% loss in hardness, no blistering, no whitening.	
	25% ammonium hydroxide	5% HNO ₃
	gasoline	10% HCl
	xylene	distilled water
	20% HCl	mineral spirits
Limited Resistance	24 hour immersion, greater than 50% loss in hardness, no blistering, slight whitening.	
	12% HNO ₃	50% NaOH
	12% H ₂ SO ₄	Methanol
	20% acetic	10% lactic
	Not Resistant	48 hour immersion, greater than 50% loss in hardness, blistering, whitening, adhesion loss.
75% Acetic Acid		5% H ₃ PO ₄
fuming H ₂ SO ₄		methylene chloride
methyl ethyl ketone		50% lactic acid

200-01B

Storage, Handling and Safety

Please read and understand the latest MSDS before using epoxa us 200-01B

Please refer to epoxa us website for more information on shelf life.

Exposure to these materials should be minimized and avoided, if feasible, through the observance of proper precautions, use of appropriate engineering controls and proper personal protective clothing and equipment, and adherence to proper handling procedures. None of these materials should be used, stored, or transported until the handling precautions and recommendations as stated in the Material Safety Data Sheet (MSDS) for these and all other products being used are understood by all persons who will work with them. Questions and requests for information on epoxa us incorporated products should be directed to your epoxa us sales representative. Information and MSDSs on non epoxa us products should be obtained from the respective manufacturer.

Packaging

Available in gallon and drum quantities.

Contact Information

For product prices, availability, or order placement, MSDS and technical help please contact us.

www.epoxaus.com

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