



Curing Agents

epoxa us™ 50-01

Description

epoxa us™ Curing Agent 50-01 is a low viscosity clear color epoxy hardener formulated for adhesion project applications with a different approach as it can be used with a variety of resins to achieve desired performance and cost effective solutions.

Applications

- * Epoxy strenght for electrical applications
- * Ability to adhere to different substrates
- * Construction adhesives
- * Composite applications
- * Household and molding

Key Features and Benefits

- Great impact resistance, low viscosity
- Motor or manual mixing
- Excellent volume stability
- Good chemical resistance
- Excellent performance under hot and cold conditions

Sales Specification

Property	Units	Value	Test Method/Standard
Amine value	mg/g	1455	ASTM D2896
Viscosity at 20°C	cP	26	
Color	Pt-Co	50 Max	ASTM D1209

Typical Properties

Property	Units	Value	Test Method/Standard
Equivalent weight, approx.		23-25.5	
Density @ 20 °C	lbs/gal	8.15	

50-01

Flash point	° C	>279	ASTM D56
Appearance		Clear Liquid	
Mix ratio with			
EEW 188-192 epoxy	phr	10-15	

Performance Properties

Properties of epoxa us 50-01 curing agent based on 1600-01 as part A

Components	Method	Units	Value
epoxa us 50-01		pbw	14
epoxa us 1600-01		pbw	100

Handling Properties

25°C

Viscosity, Mixed		cP	1000-1500
Peak Exotherm		°C	142
Pot life, 250 g, 25 °C		min	20

Cured Properties

Heat Deflection Temperature	ASTM D648	°C	123
Tensile Strength 14 days 25c	ASTM D638	psi	9500
Tensile Elongation Ultimate		%	2.7

Starting Formulation Adhesive

Components	Units	Value
1600-01 resin	pbw	40
HELOXY Modifier 61	pbw	3
Silica	pbw	40
Barium sulfate 325	pbw	15
Titanium Dioxide	pbw	1
Nonyl Phenol	pbw	1

Physical Properties

Percent of solids epoxa 50-01		100
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Storage, Handling and Safety

Please read and understand the latest MSDS before using epoxa us 50-01

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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