



Curing Agents

epoxa us™ 30-01

Description

epoxa us™ Curing Agent 30-01 is a medium viscosity polyamide-aliphatic amine curing agent or hardener. Systems formulated with epoxa us Curing Agent 30-01 offer great adherence to damp surfaces and different types of materials. It can be reacted with different epoxies to obtain desired working times and results. A non-critical combining ratio eases the mixing.

Applications

- * Non-critical combining ratio epoxy curing agents
- * Adhesives
- * Mold and piece
- * Coating systems
- * Maintenance compounds
- * Structural

Key Features and Benefits

- Great impact resistance, medium viscosity
- Medium reactivity
- Flexibility
- Water resistance
- Toughness

Sales Specification

Property	Units	Value	Test Method/Standard
Amine value	mg/g	880-900	ASTM D2896
Viscosity at 25°C	cP	800-1500	Standard Method
Color	Gardner	5-6 max	Standard Method

Typical Properties

Property	Units	Value	Test Method/Standard
Equivalent weight, approx.		74.7	
Density @ 20 °C	lbs/gal	8.15	

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Flash point	°C	>170	ASTM D56
Appearance		Amber	
Mix ratio with			
EEW 188-192 epoxy	phr	20-60	

Performance Properties

Properties of epoxa us 30-01 curing agent

Components	Method	Units	Value
epoxa us 30-01		pbw	30
epoxa us 1600-01		pbw	100

Handling Properties

25°C

Viscosity, Mixed		cP	1000-1500
Peak Exotherm		°C	129
Pot life, 250 g, 25 °C		min	35

Cured Properties

Heat Deflection Temperature	ASTM D648	°C	64
Tensile Strength	ASTM D638	psi	7,812
Tensile Elongation		%	7.1

Starting Formulation Metal to Metal Adhesive

Components	Units	Value
1600-01 resin	pbw	42
HELOXY Modifier 61	pbw	7
Barium Sulfate	pbw	43
Aluminium Paste	pbw	8
epoxa us curing agent 30-01	pbw	12.77

Physical Properties

Percent of solids epoxa 30-01		100
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30-01

Pot life at 25 °C	minutes	40
Dry times		
Dust-free	hours	1
Tack-free	hours	1/10
Through-cure	hours	3

Film Properties

25 c 50% R.H.		
1 day		Clear, tack-free
10 c 90% R.H.		
1 day		Clear, tack-free
7 days		Tack-free, no blush
4.4 c 80% R.H.		
1 day		Slight tack, no blush
7 days		Slight tack, no blush

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.	
	10% HNO ₃	50% NaOH
	10% H ₂ SO ₄	wine
	10% acetic	10% lactic
Not Resistant	48 hour immersion, greater than 50% loss in hardness, blistering, whitening, adhesion loss.	
	Ethanol	5% H ₃ PO ₄
	fuming H ₂ SO ₄	methylene chloride
	methyl ethyl ketone	50% acetic acid
		50% lactic acid

Storage, Handling and Safety

Please read and understand the latest MSDS before using epoxa us 30-01

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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