



Curing Agents

epoxa us™ 10-01

Description

epoxa us™ Curing Agent 10-01 is a very low viscosity, modified cycloaliphatic amine, light colored epoxy hardener. Systems formulated with epoxa us Curing Agent 10-01 exhibit good chemical resistance and color stability. It is ideally suited for civil engineering sealers and architectural coatings.

Applications

- * Flooring
- * Art, hobby, Decoupage
- * Grouts
- * Mortars
- * Architectural high build coatings

Key Features and Benefits

- Great impact resistance, low viscosity
- Variable flexibility
- Excellent gloss and color stability
- Good chemical resistance
- Positive cure under damp cool conditions

Sales Specification

Property	Units	Value	Test Method/Standard
Amine value	mg/g	288-358	ASTM D2896
Viscosity at 25°C	cP	52-97	ASTM D2196
Color	Gardner	1	ASTM D1544

Typical Properties

Property	Units	Value	Test Method/Standard
Equivalent weight, approx.		94	
Density @ 25 °C	lbs/gal	8.3	ASTM D1475

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Flash point	°C	>101	ASTM D3278
Appearance		Transparent	
Mix ratio with			
EEW 188-192 epoxy	phr	45-60	

Performance Properties

Properties of epoxa us 10-01 curing agent

Components	Method	Units	Value
epoxa us 10-01		pbw	50
epoxa us 1600-01 epoxy		pbw	88
HELOXY™ Modifier 8		pbw	12

Handling Properties

25°C

Viscosity, Mixed		cP	222
Peak Exotherm		°C	147
Pot life, 250 g, 25 °C		min	42

Cured Properties

Heat Deflection Temperature	ASTM D648	°C	52
Tensile Strength	ASTM D638	psi	7,617
Tensile Elongation		%	16

Starting Formulation Transparent Varnish

Components	Units	Value
1600-01 resin	pbw	86
HELOXY Modifier 8	pbw	14
epoxa us curing agent 10-01	pbw	50

Physical Properties

Percent of solids epoxa 10-01		100
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Pot life at 25 °C	minutes	44
Dry times		
Dust-free	hours	3
Tack-free	hours	4.7
Through-cure	hours	17

Film Properties

25 c 50% R.H.		
1 day		Clear, tack-free
10 c 90% R.H.		
1 day		Slight tack, clear
7 days		Tack-free, slight blush
4.4 c 80% R.H.		
1 day		Slight tack, slight blush
7 days		Slight tack, slight blush

Resistance to Chemichals

Resistant	24 hour immersion, less than 50% loss in hardness, no blistering, no whitening.	
	25% ammonium hydroxide	5% HNO ₃
	beer	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	24 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 10-01

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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