



Curing Agents

epoxa us™ 66-01

Description

epoxa us™ 66-01 is a high viscosity reactive aliphatic amine based curing agent with thixotropic properties and paste appearance. It is recommended as a general epoxy hardener for use in metal, fiberglass, wood, composites, etc and can be blended with other amine curing agents to modified curing times and viscosity. When used with a thixotropic resin it allows application on vertical and ceiling type surfaces.

Suggested uses

- * Adhesives, marine and land based
- * Construction epoxy systems
- * Fiberglass maintenance
- * Composites maintenance and repair
- * Electronic and electric compounds

Key Features

- Good chemical resistance
- Excellent bonding to a wide range of materials
- Impact resistant, great toughness
- Fast curing convenient paste system
- Good substrate and pigment wetting

Sales Specification

Property	Units	Value	Test Method/Standard
Amine value	mg/g	1700	ASTM D2896
Viscosity at 25c	cP	5600-8100	ASTM D2196
Color		White	Visual

Typical Properties

Property	Units	Value	Test Method/Standard
Equivalent weight, approx.		21	Pure form
Density @ 25 °C	lbs/gal	13.82	

66-01

Flash point	° C	>220	ASTM D3278
Appearance		White Paste	
Mix ratio with			
epoxa us 610-01 resin	phr	50	

Performance Properties

Properties of epoxy resins combined with epoxa us 66-01 curing agent cured 1 day at room temperature plus 2 hours at 100c

Resins and Hardener	Units	A	B	C	D
epoxa us 610-01		100	100		
epoxa us 200-01A				100	
epoxa us 1600-01					100
epoxa us curing agent 66-01		50	60	50	25

Handling Properties

25°C

Viscosity, Mixed	cP	8600-12500	8000-12000	9000	8000
Peak Exotherm	°C	71	74	68	75
Pot life, 250 g, 25 °C	min	30	28	30	27

Cured Properties

Heat Deflection Temperature	°C	74	72	71	67
Tensile Strength 14 days 25c	psi	8100	7430	8012	8833
Tensile modulus	ksi	387	344	379	377
Tensile Elongation	%	3.4	3.4	3.6	6.9
Flexural Strength	psi	12100	11700	11900	10112
Flexural Modulus	ksi	352	346	349	290
Compression Strength	psi	33000	31775	32000	21358
Compression Modulus	ksi	280	260	280	200
Hardness	D Shore	90	90	83	89

Performance Properties

Chemical properties of epoxy resins combined with epoxa us 66-01 curing agent cured 1 day at room temperature plus 2 hours at 100c

Percentage Weight Gain	Units	A	B	C	D
Water					
24 Hours	%	0.10	0.11	0.12	0.13
7 Days	%	0.32	0.36	0.36	0.39
5% Acetic Acid					
24 Hours	%	0.50	0.50	0.66	0.79
7 Days	%	1.51	1.61	1.88	3.33
50% Xylene / 50% Isopropanol					
24 Hours	%	2.02	2.19	2.49	5.01
7 Days	%	6.10	6.10	Fragmented	

Storage, Handling and Safety

Please read and understand the latest MSDS before using epoxa us 66-01

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 1 gallon, 5 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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