

## Epoxy Curing Agents and Modifiers

# LMK Epoxy Hardener M

### Description

LMK Epoxy Hardener M is an amidoamine intended for use with liquid epoxy resins with ambient temperature or heat cure. It can be used as the sole curing agent or in a mixture with other amine-based curing agents, such as modified aliphatic amines, to adjust the cure rate or other properties. LMK Epoxy Hardener M can be used in compliance with 21 CFR 175.300 as a component of FDA- compliant epoxy coatings, can cements and adhesives.

### Advantages

- Low viscosity
- Moderate pot life
- Less critical mixing ratio

### Applications

- Flooring and concrete primers
- Concrete repair mortars and grouts
- High-solids coatings

### Storage Life

At least 24 months from the date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity in tightly closed containers.

### Handling Precautions

Refer to the Material Safety Data Sheet for LMK Epoxy Hardener M.

### Typical Properties

Appearance	Amber Liquid
Color (Gardner)	7
Viscosity @ 77 °F (cP)	250
Amine Value (mg KOH/g)	445
Specific Gravity @ 77 °F	0.95
Density @ 77 °F (lb/gal)	7.9
Flash Point (closed cup) (°F)	383
Equivalent Wt/{H}	90
Recommended Use Level (phr, EEW = 190)	50

### Typical Handling Properties\*

Mixed Viscosity @ 77 °F (cP)	1,400
Gel Time (150g mix @ 77 °F) (min)	135
Thin Film Set Time @ 77 °F (hr)	12
Peak Exotherm (100g mix @ 77 °F) (°F)	237
Peak Exotherm Time (min)	210

### Typical Performance\*

(Cured 7 days @ 77 °F)	
Heat Deflection Temp. (ASTM D648-264 psi) (°F)	113
Barcol Hardness (Model GYZJ-935)	74
Bond Strength (mild steel to mild steel) (psi)	2,680
Flexural Strength (psi)	11,410
Flexural Modulus (thousand psi)	273
Tensile Strength (psi)	6,850
Tensile Modulus (thousand psi)	341
Elongation (%)	2.0

\*LMK Epoxy Hardener M formulated with standard Bisphenol-A based (DGEBA, EEW=190) epoxy resin.

### Typical Cure Schedule

- 2 to 7 days at ambient temperature.
- 2 hours at 140 °F plus 1 hour at 212 °F.

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125-9717.4

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