

ANCAMINE® 1637-LV Curing Agent**DESCRIPTION**

Ancamine® 1637-LV is a low viscosity version of Ancamine 1637. Ancamine 1637-LV curing agent is a Mannich base curing agent with a fast thin film set time, even under low temperature, humid conditions. It can be used in conjunction with both standard liquid epoxies and/or epoxy novolacs for chemically resistant coatings, adhesives and wet lay-up laminates. It can also be used as an accelerator for other curing agents. Ancamine 1637-LV is appropriate for ambient cure or heat cure applications..

ADVANTAGES

- Rapid cure speed
- Cures well even under high humidity and low temperatures
- DOT noncorrosive
- Very good resistance to solvents, inorganic acids and water

APPLICATIONS

- Adhesives
- Laminates
- Chemically resistant coatings
- Concrete repair and mortars
- Accelerator for other curing agents

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 1637-LV curing agent.

SHELF LIFE

At least 12 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.

TYPICAL CURE SCHEDULE

2 to 7 days at ambient temperature. Gel at ambient temperature plus 2 hours at 212°F.

TABLE 1: TYPICAL PROPERTIES

Appearance	Amber Liquid
Color (Gardner)	6
Viscosity @ 77°F (cP)	1,500
Amine Value (mg KOH/g)	775
Specific Gravity @ 77°F	1.08
Flash Point (closed cup) (°F)	277
Equivalent Wt/{H}	50
Recommended Use Level (phr, EEW=190)	26

TABLE 2: TYPICAL HANDLING PROPERTIES*

Mixed Viscosity. @ 77°F (cP)	8,350
Gel Time (150g mix @ 77°F) (min)	16
Thin Film Set Time:	
@ 77°F (h)	2.5
@ 40°F (h)	6.5
Peak Exotherm (100g mix @ 77°F) (°F)	354
Peak Exotherm Time (min)	18

TABLE 3: TYPICAL PERFORMANCE*

(Cured 7 days @ 77°F)	
Compressive Strength (psi)	11,900
Flexural Strength (psi)	20,200
Flexural Modulus (thousand psi)	663
Tensile Strength (psi)	9,500
Tensile Modulus (thousand psi)	493
Elongation (%)	2.5
Heat Deflection Temperature (ASTM D648-264 psi) (°F)	115
Glass Transition Temperature (°F)	132
Barcol Hardness (Model GYZJ-935)	84
Bond Strength (mild steel to mild steel) (psi)	1,750

* Ancamine 1637-LV curing agent formulated with standard Bisphenol-A based (DGEBA, EEW=190) epoxy resin.

Epoxy Curing Agents and Modifiers

ANCAMINE® 1637-LV Curing Agent

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