

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

Ancamine® 1637LV is a low viscosity version of Ancamine 1637. Ancamine 1637LV 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 1637LV is appropriate for ambient cure or heat cure applications.

TYPICAL PROPERTIES

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

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 1637LV 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.

TYPICAL HANDLING PROPERTIES*

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

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

TYPICAL PERFORMANCE*

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

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