

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

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
- Non-corrosive
- Very good resistance to solvents, inorganic acids and water

APPLICATIONS

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

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature.

STORAGE AND HANDLING

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

TYPICAL PROPERTIES

Appearance	Dark amber liquid
Colour¹ (Gardner)	8
Viscosity² @ 25°C [mPa.s]	1,000-2,000
Amine Value³ [mg KOH/g]	681-882
Specific Gravity @ 21°C [g/ml]	1.08
Equivalent Wt/{H}	50
Recommended use Level⁴, [PHR]	26

TYPICAL HANDLING PROPERTIES

Mixed Viscosity² at 25°C, [mPa.s]	5,100
Gel Time⁵ (150g mix at 25°C), [mins]	13
Peak Exotherm (150g mix at 25°C), [°C]	179
Thin Film Set Time⁶ @ 25°C, [h]	1.5
Typical cure schedule	2- 7 days

TYPICAL PERFORMANCE PROPERTIES

Tensile Strength⁷, [MPa]	65
Tensile Modulus⁷, [GPa]	3.5
Tensile Elongation at Break [%]	2.5
Flexural Strength⁸, [MPa]	124
Flexural Modulus⁸, [GPa]	2.6
Heat Distortion Temperature⁹, [°C]	46

Footnotes:

- (1) ASTM D 1544-80
- (2) Brookfield RVTD, Spindle 4
- (3) Perchloric Acid Titration
- (4) With Bisphenol A diglycidyl ether (EEW=190)
- (5) Techne GT-3 Gelation Timer
- (6) BK Drying Recorder Phase III
- (7) ISO 527
- (8) ISO 178
- (9) ASTM D648

Epoxy Curing Agents and Modifiers

ANCAMINE® 1637-LV Curing Agent

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