

## Product information

# ANCAMINE<sup>®</sup> 1637

## Curing Agent

### DESCRIPTION

Ancamine 1637 curing agent is a rapid Mannich-Base curing agent with a fast thin film set time, even under adverse, humid conditions. It is used in conjunction with both standard liquid epoxies and/or epoxy novolacs for a variety of applications. Ancamine 1637 curing agent can also be used as an accelerator for other curing agents.

### TYPICAL PROPERTIES

Property	Value	Unit
Appearance	Amber Liquid	
Color	6	Gardner
Viscosity @ 77°F (25°C)	4,000	cP
Amine Value	750	mg KOH/g
Specific Gravity @ 77°F (25°C)	1.09	
Density @ 77°F (25°C)	9.1	lb/gal
Flash Point	277	°F
Equivalent	50	Wt/{H}
Recommended Use Level	26	phr, EEW=190

### ADVANTAGES

- Fast thin film set time
- Good chemical resistance to gasohol and skydrol, distilled water, inorganic acids, alkalies, dilute acetic acid and many organic solvents
- DOT noncorrosive

### APPLICATIONS

- Wet lay-up laminates
- Concrete repair compounds
- Adhesives
- Chemically resistant coatings
- Accelerator for other curing agents

## SHELF 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.

## STORAGE AND HANDLING

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

## TYPICAL CURE SCHEDULE

- 1) 2–7 days at ambient temperature.
- 2) Gel at ambient temperature plus 2 hours at 212 °F (100 °C).

## TYPICAL HANDLING PROPERTIES

Property	Value	Unit
Mixed Viscosity @ 77°F (25°C)	9,800	cP
Gel Time @ 77°F (25°C), 150 g mix	14	min
Thin Film Set Time @ 77°F (25 °C)	1.5	hr
Peak Exotherm @ 77°F (25 °C), 100g mix	354	°F
Peak Exotherm Time		min

## TYPICAL PERFORMANCE PROPERTIES\*

Property	Value	Unit	Method
Heat Deflection Temperature	214	°F	ASTM D648-264 psi
Flexural Strength	16,700	psi	
Flexural Modulus	377	thousand psi	
Tensile Strength	9,400	psi	
Tensile Modulus	493	thousand psi	
Elongation	2.5	%	
Barcol Hardness	84		Model GYZJ-935
Bond Strength (mild steel to mild steel)	1,740	psi	

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

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