

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.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Dark amber liquid		
Colour	8	Gardner	ASTM D 1544-80
Viscosity @ 25°C	1,000-2,000	mPa.s	Brookfield RVTD, Spindle 4
Amine Value	681-882	mg KOH/g	Perchloric Acid Titration
Specific Gravity @ 21°C	1.08	g/ml	
Equivalent	50	Wt/{H}	
Recommended use Level	26	PHR	With Bisphenol A diglycidyl ether (EEW=190)

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 HANDLING PROPERTIES

Property	Value	Unit	Method
Mixed Viscosity ² at 25°C	5,100	mPa.s	Brookfield RVTD, Spindle 4
Gel Time (150g mix @ 25°C)	13	mins	Techne GT-3 Gelation Timer
Peak Exotherm (150g mix at 25°C)	179	°C	
Thin Film Set Time @ 25°C	1.5	h	BK Drying Recorder Phase III
Typical cure schedule	2- 7	days	

TYPICAL PERFORMANCE PROPERTIES

Property	Value	Unit	Method
Tensile Strength	65	MPa	ISO 527
Tensile Modulus	3.5	GPa	ISO 527
Tensile Elongation at Break	2.5	%	
Flexural Strength	124	MPa	ISO 178
Flexural Modulus	2.6	GPa	ISO 178
Heat Distortion Temperature	46	°C	ASTM D648

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EVONIK OPERATIONS GMBH

Business Line Crosslinkers
Paul-Baumann-Str. 1
45764 Marl
Germany

www.evonik.com/crosslinkers

Product Information: APCSE@evonik.com

Sample Request: APCSE@evonik.com

EVONIK CORPORATION

Business Line Crosslinkers
7001 Hamilton Boulevard
Trexlerstown, PA 18087
USA

CrosslinkersProinfo@evonik.com

Crosslinkers-Samples@evonik.com

**EVONIK SPECIALTY CHEMICALS
(SHANGHAI) CO., LTD.**

Business Line Crosslinkers
55, Chundong Road
Xinzhuang Industry Park
Shanghai, 201108
China

CL-Asiainfo@evonik.com

CL-Asiainfo@evonik.com

