

ANCAMINE[®] 2089M**Curing Agent****DESCRIPTION**

Ancamine 2089M is a modified aliphatic amine which has been designed for use as an ambient temperature curing agent for liquid epoxy resin. The ability to cure rapidly at low temperatures under adverse humidity makes it particularly suitable for adhesives and concrete patching applications. The light colour, high reactivity and ability to give high gloss films at room temperature makes it ideal accelerator for cycloaliphatic amine cured coatings and flooring.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Light yellow liquid		
Colour	2	Gardner	ASTM D 1544-80
Viscosity @ 25°C	80-150	mPa.s	Brookfield RVTD, Spindle 4
Amine Value	380-410	mg KOH/g	Perchloric Acid Titration
Specific Gravity @ 21°C	1.07	g/ml	
Equivalent	75	Wt/{H}	
Recommended use Level	40	PHR	With Bisphenol A diglycidyl ether (EEW=190)

ADVANTAGES

- Rapid cure at low temperature under adverse humidity conditions
- Low colour
- High gloss films at room temperature
- Excellent chemical resistance to water, inorganic acids and alkalis

APPLICATIONS

- Adhesives and concrete patch repair
- Accelerator for cycloaliphatic amine cured coatings and floorings

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 2089M curing agent.

TYPICAL HANDLING PROPERTIES

Property	Value	Unit	Method
Mixed Viscosity @ 25°C	2,000	mPas	Brookfield RVTD, Spindle 4
Gel Time (150g mix @ 25°C)	11	mins	Techne GT-3 Gelation Timer
Peak Exotherm (150g mix at 25°C)	146	°C	
Time to Peak Exotherm	20	mins	
Thin Film Set Time @ 25°C	2	h	BK Drying Recorder Phase III
Typical cure schedule	2- 7	days	

TYPICAL PERFORMANCE PROPERTIES

Property	Value	Unit	Method
Tensile Strength	39	MPa	ISO 527
Tensile Modulus	3.9	GPa	ISO 527
Tensile Elongation at Break	1.0	%	
Flexural Strength	60	MPa	ISO 178
Flexural Modulus	3.2	GPa	ISO 178
Heat Distortion Temperature	56	°C	ASTM D648

Ancamine® is a registered trademark of Evonik Industries AG or one of its subsidiaries.

Disclaimer

This information and all further technical advice are based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether express or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technological progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products could not be used.

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

