

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.

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 PROPERTIES

Appearance	Light yellow liquid
Colour¹ (Gardner)	2
Viscosity² @ 25°C [mPa.s]	80-150
Amine Value³ [mg KOH/g]	380-410
Specific Gravity @ 21°C [g/ml]	1.07
Equivalent Wt/{H}	75
Recommended use Level⁴, [PHR]	40

TYPICAL HANDLING PROPERTIES

Mixed Viscosity² at 25°C, [mPa.s]	2,000
Gel Time⁵ (150g mix at 25°C), [mins]	11
Peak Exotherm (150g mix at 25°C), [°C]	146
Time to Peak Exotherm [mins]	20
Thin Film Set Time⁶ @ 25°C, [h]	2
Typical cure schedule	2- 7 days

TYPICAL PERFORMANCE PROPERTIES

Tensile Strength⁷, [MPa]	39
Tensile Modulus⁷, [GPa]	3.9
Tensile Elongation at Break [%]	1.0
Flexural Strength⁸, [MPa]	60
Flexural Modulus⁸, [GPa]	3.2
Heat Distortion Temperature⁹, [°C]	56

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® 2089M Curing Agent

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