

ANCAMINE[®] MCA Curing Agent**DESCRIPTION**

Ancamine MCA curing agent is a modified cycloaliphatic amine designed for use with liquid epoxy resins. It also can be used to cure solid resins in solvent-based systems. Ancamine MCA curing agent allows for cures at high humidity, low temperatures to 40°F and underwater. A phenol-free version is available as Ancamine 2072 curing agent.

ADVANTAGES

- High reactivity
- Excellent adhesion to cold, damp concrete
- Good gloss and smooth finishes
- Good chemical resistance to water, dilute mineral acids, alkalies, hydrocarbons and solvents
- Good resistance to waterspotting and blush

APPLICATIONS

- Chemically-resistant flooring mortars
- Solvent-free and high-solids coatings
- Concrete repair compounds
- Concrete bonding agents in combination with polyamides and amidoamines
- Laminates

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 MCA curing agent.

TYPICAL CURE SCHEDULE

- 2–7 days at ambient temperature.
- Gel at ambient temperature plus 2 h at 212°F.

TABLE 1: TYPICAL PROPERTIES

Appearance	Light Yellow Liquid
Color (Gardner)	3
Viscosity @ 77°F (cP)	150
Specific Gravity @ 77°F	1.03
Amine Value, mg KOH/g	305
Density @ 77°F (lb/gal)	8.6
Flash Point (closed cup) (°F)	230
Equivalent Wt/{H}	101
Recommended Use Level (phr, EEW=190)	55

TABLE 2: TYPICAL HANDLING PROPERTIES*

Mixed Viscosity @ 77°F (cP)	1,550
Gel Time (150g mix @ 77°F) (min)	32
Thin Film Set Time:	
@ 77°F (hr)	6.5
@ 40°F (hr)	12
Peak Exotherm (100g mix @ 77°F) (°F)	240
Peak Exotherm Time (min)	38

TABLE 3: TYPICAL PERFORMANCE*

(7 day cure @ 77°F)	
Glass Transition Temperature (°F)	111
Tensile Strength (psi)	7,170
Tensile Modulus (thousand, psi)	280
Elongation, %	3.5
Flexural Strength (psi)	11,140
Flexural Modulus (thousand, psi)	250
60° Film Gloss	103
Barcol Hardness (Model GYZJ-935)	80
Bond Strength (mild steel to mild steel) (psi)	1,450

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

Epoxy Curing Agents and Modifiers

ANCAMINE[®] MCA Curing Agent

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