

Product information

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.

TYPICAL PROPERTIES

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

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

TYPICAL HANDLING PROPERTIES *

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

TYPICAL PERFORMANCE *

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

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

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