

Product information

ANCAMINE® MCA

Curing Agent

DESCRIPTION

Ancamine MCA curing agent is a modified cycloaliphatic amine designed for use with liquid epoxy resins. It can also be used to cure solid resins in solvent-based systems. Ancamine MCA curing agent allows for curing at high humidity, low temperatures to 4°C and underwater. A phenol-free version is available as Ancamine 2072 curing agent.

TYPICAL PROPERTIES

Property	Value	Unit
Appearance	Light yellow liquid	
Color	3	Gardner
Viscosity @ 25°C	150	mPas
Amine Value	305	mg KOH/g
Density @ 25°C	1.03	g/cm ³
Flash Point (closed cup)	110	°C
Equivalent	101	Wt/{H}
Recommended Use Level	55	(phr, EWW=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.

TYPICAL CURE SCHEDULE

- 2–7 days at ambient temperature.
- Gel at ambient temperature plus 2 h at 100°C.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine MCA curing agent.

TYPICAL HANDLING PROPERTIES*

Property	Value	Unit
Mixed Viscosity @ 25°C	1,550	mPas
Gel Time (150g mix @ 25°C)	32	min
Thin Film Set Time:		
@ 25°C (hr)	6.5	hr
@ 4°C (hr)	12	hr
Peak Exotherm (100g mix @ 25°C)	240	°C
Peak Exotherm Time	38	min

TYPICAL PERFORMANCE*

Property	Value	Unit
(7 day cure @ 25°C)		
Glass Transition Temperature	44.0	°C
Tensile Strength	49.4	MPa
Tensile Modulus	1.93	GPa
Elongation	3.5	%
Flexural Strength	76.8	MPa
Flexural Modulus	1.72	GPa
60° Film Gloss	103	
Barcol Hardness (Model GYZJ-935)	80	
Bond Strength (mild steel to mild steel)	10.0	MPa

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

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

