

ANCAMIDE[®] 400**Curing Agent****DESCRIPTION**

Ancamide 400 is a special polyamide curing agent for liquid epoxy resin. It has a similar performance to Ancamide 350A but with a much lower viscosity and higher amine value. This versatile curing agent cures relatively rapidly and has excellent compatibility with bis F and conventional epoxy resins, has a pale colour and good colour stability. When blended with cycloaliphatic polyamines good hot water resistance is attainable. Applications for Ancamide 400 include coatings, floorings, adhesives (with Goodrich ATBN modifiers) sealants, putties, grouts and electrical potting.

Good chemical resistance against water and most aqueous media except acids; moderate to poor against organic solvents.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Amber Liquid		
Colour	<13	Gardner	ASTM D 1544-80
Viscosity	1,200-2,000	mPa.s	Brookfield RVTD, Spindle 4
Amine Value	380-430	mg KOH/g	Perchloric Acid Titration
Specific Gravity @ 21°C	0.98	g/ml	
Equivalent	95	Wt/{H}	
Recommended use Level	50	PHR	With Bisphenol A diglycidyl ether (EEW=190)
Flash Point (closed cup)	>160	°C	

ADVANTAGES

- Low viscosity polyamide
- Moderately fast cure
- No induction time needed

APPLICATIONS

- Coatings
- Adhesives
- Sealants and Putties
- Electrical potting compounds
- Grouts (especially water-wipeable)

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 Ancamide 400 curing agent.

TYPICAL HANDLING PROPERTIES

Property	Value	Unit	Method
Gel Time (150g mix at 25°C)	65-80	mins	Techne GT-3 Gelation Timer
Peak Exotherm (150g mix at 25°C)	105	°C	
Time to Peak Exotherm	117	min	
Thin Film Set Time 25°C	9	h	BK Drying Recorder Phase III

TYPICAL CURE SCHEDULE

- (i) 7 Days at Ambient Temperature
- (ii) 2 Hours at 60°C plus 1 h at 100°C

TYPICAL PERFORMANCE PROPERTIES

Property	Value	Unit	Method
Following Cure Schedule (ii)			
Barcol Hardness (model GYZJ935)	69		
Bond Strength (mild steel)	12	MPa	
Tensile Strength	32	MPa	ISO 527
Tensile Modulus	2.5	GPa	ISO 527
Flexural Strength	53	MPa	ISO 178
Flexural Modulus	1.77	GPa	ISO 178
Elongation Break	1.44	%	
Heat Distortion Temperature	46	°C	ASTM D648

Ancamide® 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
7201 Hamilton Blvd.
Allentown, PA 18195
USA

CrosslinkersProinfo@evonik.com

Crosslinkers-Samples@evonik.com

EVONIK SPECIALTY CHEMICALS (SHANGHAI) CO., LTD.

Business Line Crosslinkers
55, Chungong Road
Xinzhuang Industry Park
Shanghai, 201108
China

CL-Asiainfo@evonik.com

CL-Asiainfo@evonik.com

