Product information

ANCAMIDE® 501

Curing Agent

DESCRIPTION

Ancamide 501 curing agent is an accelerated amidoamine for use in curing liquid epoxy resins. It offers faster cure speed and improved chemical resistance over unmodified amidoamines.

TYPICAL PROPERTIES

Property	Value	Unit
Appearance	Amber Liquid	
Color	7	Gardner
Viscosity @ 77°F	600	cP
Amine Value	550	mg KOH/g
Specific Gravity @ 77°F	0.980	
Density @ 77°F	8.2	lb/gal
Flash Point (closed cup)	259	°F
Equivalent Wt/{H}	68	
Recommended Use Level	35	phr, EEW=190

BENEFITS

- Faster cure than standard amidoamines
- Low viscosity
- Excellent bonding for construction materials, particularly concrete

APPLICATIONS

- Trowelable flooring
- Concrete coatings and primers
- Repair mortars and patching compounds
- Concrete adhesives and grouts

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STORAGE AND HANDLING

Refer to the Safety Data Sheet on Ancamide 501 curing agent.

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 to 7 days at ambient temperature.
• 2 h at 140°F plus 1 h at 212°F.

TYPICAL HANDLING PROPERTIES*

Property	Value	Unit
Mixed Viscosity @ 77°F	3,000	cP
Gel Time (150g mix @ 77 °F)	40	min
Thin Film Set Time @ 77 °F	7.5	h
Peak Exotherm (100g mix @ 77°F)	316	°F
Peak Exotherm Time	55	min

TYPICAL PERFORMANCE (WITH BIS-A RESIN—A*)

Property	Value	Unit
7 day cure @ 77°F		
Heat Deflection Temperature (ASTM D648-264 psi)	116	°F
Barcol Hardness (Model GYZJ-935)	79	
Bond Strength (mild steel to mild steel)	2,020	psi
Tensile Strength	6,180	psi
Tensile Modulus	457	thousand psi

TYPICAL PERFORMANCE (WITH DILUTED RESIN—B*)

Property	Value	Unit
7 day cure @ 77°F		
Compressive Strength and Yield	13,200	psi
Compressive Modulue	318	thousand psi
Tensile Strength	7,800	psi
Tensile Modulus	352	thousand psi
Tensile Elongation at Break	7.9	%
Flexural Strength	14,000	psi
Flexural Modulus	396	thousand psi

(A*) Ancamide 501 curing agent formulated with standard Bisphenol-A (DGEBA, EEW=190) epoxy resin.

(B*) Ancamide 501 curing agent with 90% DGEBA resin (EEW=190) and 10% Epodil® 748 diluent (C_{12}-C_{14} alkyl glycidyl ether).

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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
Trexlertown, PA 18087
USA

CrosslinkersProdinfo@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

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