Product information

ANCAMIDE® 512
Curing Agent

DESCRIPTION

Ancamide 512 is an aliphatic amidoamine curing agent designed for use with liquid epoxy resin at ambient or elevated temperatures. It can be used as the sole curing agent or in a mixture with other amine-based curing agents to adjust the cure rate or other properties.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Clear, yellow liquid		
Color	<10	Gardner	ASTM D 1544-80
Viscosity @ 25°C	300-450	cPs	ASTM D 2196-05, Brookfield RVTD
Amine Value	400-500	mg KOH/g	Perchloric acid titration
Specific Gravity @ 21°C	0.93		
Equivalent	100-110	Wt/{H}	
Recommended Use Level	50	PHR	Bisphenol A diglycidyl ether resin (EEW=190)

BENEFITS

• Low viscosity
• Relative long pot life
• Non-critical mixing ratio
• Excellent adhesion to concrete

APPLICATIONS

• Concrete coatings
• Trowelable flooring
• Concrete repair
• Grouts
• Structural composites

HANDLING PRECAUTIONS

Refer to the Safety Data Sheet on Ancamide 512 Curing Agent

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SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature.

TYPICAL CURE SCHEDULE

• 7-14 days at ambient
• 2 days @ 25 °C + 2hrs @ 100 °C

TYPICAL HANDLING PROPERTIES*

Property	Value	Unit	Method
Mixed Viscosity at 25°C	2,100	cPs	
Gel Time (150 g mass, 25 °C)	96	mins	Techne GT-3 Gelation Timer
Thin Film Set Time 25°C	11	hrs	BK Drying Recorder phase III
Hardness Shore D @ 25 °C	80/86	24hr/day	

TYPICAL PERFORMANCE PROPERTIES*

Property			Method
(7 day cure at 25 °C)			
Tensile Strength	47 MPa	6.8 ksi	ASTM D 638
Tensile Modulus	2.1 GPa	304 ksi	ASTM D 638
Tensile Elongation @ Break	6.2%		ASTM D 638
Compressive Strength	76 MPa	11 ksi	ASTM D 695
Compressive Modulus	2.1 GPa	304 ksi	ASTM D 695
Flexural Strength	77 MPa	11 ksi	ASTM D 790
Flexural Modulus	1.5 GPa	217 ksi	ASTM D 790

* Bisphenol A diglycidyl ether resin (EEW=190)

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