Product information

ANCAMIDE® 501

Curing Agent

DESCRIPTION

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

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Amber Liquid		
Colour	10	Gardner	ASTM D 1544-80
Viscosity @25°C	450-800	mPa.s	Brookfield RVTD, Spindle 4
Amine Value	520-570	mg KOH/g	Perchloric Acid Titration
Specific Gravity @ 21°C	0.99		
Equivalent	68	Wt/{H}	
Recommended use Level	35	PHR	With Bisphenol A diglycidyl ether (EEW=190)

ADVANTAGES

- 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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SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature. Material may crystallize or solidify upon exposure to low temperatures. Crystallized or solidified material can be utilized after melting at elevated temperatures without impacting handling or physical properties. It is recommended that the material be heated to 50-70°C while mixing continuously for 1 h. Once the solidified material has fully homogenized, it can be cooled to room temperature and utilized under normal conditions.

STORAGE AND HANDLING

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

TYPICAL HANDLING PROPERTIES

Property	Value	Unit	Method
Mixed Viscosity at 25°C	3,000	mPa.s	Brookfield RVTD, Spindle 4
Gel Time (150g mix at 25°C)	40	mins	Techne GT-3 Gelation Timer
Peak Exotherm (150g mix at 25°C)	158	°C	
Time to Peak Exotherm	45	mins	
Thin Film Set Time 25°C	7.5	h	BK Drying Recorder Phase III

TYPICAL CURE SCHEDULE

(i) 7-14 days at ambient
(ii) 2 days @ 25°C + 2h @ 100°C

TYPICAL PERFORMANCE PROPERTIES

Property	Value	Unit	Method
Cure Schedule (ii)			
Tensile Strength	43	MPa	ISO 527
Tensile Modulus	3.1	GPa	ISO 527
Flexural Strength	60	MPa	ISO 178
Flexural Modulus	2.2	GPa	ISO 178
Heat Distortion Temperature	46	°C	ASTM D648
Tensile Elongation at Break	1.3	%	

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