

ANCAMIDE[®] 500

Curing Agent

DESCRIPTION

Ancamide 500 is an aliphatic amidoamine curing agent designed for use with liquid epoxy resin. It can be used as the sole curing agent or mixed with other curing agents such as Ancamine 1608 or 1768 to adjust the cure rate or other properties. Special features of Ancamide 500 include low viscosity, long pot life and non-critical loading. Applications include concrete coatings, bonding new to old concrete, crack injection, flooring, electrical encapsulation and general purpose adhesives.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Amber Liquid		
Colour	10	Gardner	ASTM D 1544-80
Viscosity @25°C	200-450	mPa.s	Brookfield RVTD, Spindle 4
Amine Value	420-465	mg KOH/g	Perchloric Acid Titration
Specific Gravity @ 21°C	0.95	g/ml	
Equivalent	90	Wt/{H}	
Recommended use Level	50	PHR	With Bisphenol A diglycidyl ether (EEW=190)

ADVANTAGES

- Long pot-life
- Low viscosity
- Non-critical loading
- Good adhesion to concrete

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. 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 500 curing agent.

TYPICAL HANDLING PROPERTIES

Property	Value	Unit	Method
Mixed Viscosity at 25°C	1,400	mPa.s	Brookfield RVTD, Spindle 4
Gel Time (150g mix at 25°C)	180	mins	Techne GT-3 Gelation Timer
Peak Exotherm (150g mix at 25°C)	114	°C	
Thin Film Set Time 25°C	12	h	BK Drying Recorder Phase III
Typical cure schedule	2- 7	days	

TYPICAL PERFORMANCE PROPERTIES

Property	Value	Unit	Method
Compressive Strength	78	MPa	ISO 604
Tensile Strength	47	MPa	ISO 527
Tensile Modulus	2.3	GPa	ISO 527
Flexural Strength	79	MPa	ISO 178
Flexural Modulus	1.9	GPa	ISO 178
Heat Distortion Temperature	45	°C	ASTM D648
Tensile Elongation at Break	2.0	%	

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