

Epoxy Curing Agents and Modifiers

Ancamide® 502 Curing Agent

DESCRIPTION

Ancamide 502 curing agent is an amidoamine intended for curing epoxy resins at ambient or elevated temperatures. It differs from Ancamide 500 curing agent in its lower imidazoline content, which results in an increase in reactivity.

ADVANTAGES

- Low viscosity
- Relatively long pot life
- Can be used in compliance with 21 CFR 175.300 and 21 CFR 176.170 as a component of FDA-compliant epoxy coatings, can cements and adhesives
- DOT noncorrosive

APPLICATIONS

- Flooring and concrete repair materials
- Surface coatings
- Castings and tooling
- Electrical potting and adhesives
- Grouts and joint fillers

STORAGE 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.

HANDLING PRECAUTIONS

Refer to the Material Safety Data Sheet for Ancamide 502 curing agent.

TYPICAL CURE SCHEDULE

- 7 days at ambient temperature.
- 2 hours at 140 °F plus 1 hour at 212 °F.

TYPICAL PROPERTIES

Appearance	Amber Liquid
Color (Gardner)	7
Viscosity @ 77 °F (cP)	300
Amine Value (mg KOH/g)	450
Specific Gravity @ 77 °F	0.950
Density @ 77 °F (lb/gal)	7.9
Flash Point (closed cup) (°F)	383
Equivalent Wt/{H}	90
Recommended Use Level (phr, EEW = 190)	50

TYPICAL HANDLING PROPERTIES*

Mixed Viscosity @ 77 °F (cP)	2,160
Gel Time (150g mix @ 77 °F) (min)	115
Thin Film Set Time @ 77 °F (hr)	12
Peak Exotherm (100g mix @ 77 °F) (°F)	250
Peak Exotherm Time (min)	110

TYPICAL PERFORMANCE*

(Cured 7 days @ 77 °F)	
Glass Transition Temperature (°F)	125
Compressive Strength (psi)	10,800
Compressive Modulus (thousand psi)	297
Tensile Strength (psi)	6,400
Tensile Modulus (thousand psi)	181
Tensile Elongation at Break (%)	5.9
Flexural Strength (psi)	12,700
Flexural Modulus (thousand psi)	392
Barcol Hardness (Model GYZJ-935)	75
Bond Strength (mild steel to mild steel) (psi)	2,550

* Ancamide 502 curing agent formulated with standard Bisphenol-A based (DGEBA, EEW=190) epoxy resin.

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