

Ancamide[®] 2798 Curing Agent

PROVISIONAL

DESCRIPTION

Ancamide 2798 curing agent is a modified aliphatic amidoamine curing agent designed for use with liquid epoxy resin. Ancamide 2798 offers low viscosity and enhanced reactivity at elevated temperatures. These features along with moderate pot life and low exotherm make Ancamide 2798 suitable for casting, wet lay-up laminating, and filament winding. The raw materials being used to make Ancamide 2798 are listed on the Positive List for coatings in drinking water (KTW guideline; Annex 1, 30. November 2010).

PERFORMANCE ADVANTAGES

- Moderate pot life
- Low viscosity
- Enhanced reactivity

APPLICATIONS

- Filament winding
- Composites and wet lay-up

TYPICAL CURE SCHEDULE

- 5 hr @ 45°C
- 2-3 hr @ 60-70°C

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamide 2798 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.

TABLE 1: TYPICAL PROPERTIES

Appearance	Amber liquid
Colour ¹ (Gardner)	max. 10
Viscosity ² @ 25°C (mPa.s)	100-200
Amine Value ³ (mg KOH/g)	300-350
Specific Gravity @ 25°C (g/mL)	0.93
Equivalent Wt/{h}	86
Recommended Use Level ⁴ (PHR)	46

TABLE 2: TYPICAL HANDLING PROPERTIES⁴

Mixed Viscosity ² @ 25°C (mPa.s)	1700
Mixed Viscosity ² @ 45°C (mPa.s)	300
Gel Time ⁵ @ 25°C (min)	130-150
Time to 10,000 mPa.s ² @ 45°C (min)	55-60
Time to 10,000 mPa.s ² @ 60°C (min)	30-32
Time to 10,000 mPa.s ² @ 70°C (min)	20-22
Gel Point {G'=G''} ² @ 70°C (min)	105-115

TABLE 3: TYPICAL PERFORMANCE PROPERTIES⁴

Glass Transition Temperature ⁶ (°C)	
Second Heating Scan	55
Cured for 2 h @ 70°C	65

- (1) ASTM D 1544
- (2) Rheometer Anton Paar MCR 302 CP-50-1
- (3) Perchloric Acid Titration
- (4) With bisphenol-A based epoxy resin (EEW=187)
- (5) Techne GT-3 Gelation Timer, 150 g mix
- (6) DSC @ 10°C/min heating scan

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Epoxy Curing Agents and Modifiers

Ancamide[®] 2798 Curing Agent

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