

ANCAMIDE[®] 2798**Curing Agent****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).

TYPICAL PROPERTIES

Property	Value
Appearance	Amber Liquid
Color 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

TYPICAL HANDLING PROPERTIES⁴

Property	Value
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

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

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.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamide 2798 curing agent.

TYPICAL PERFORMANCE PROPERTIES⁴

Glass Transition Temperature⁶ Second Heating Scan	55°C
Glass Transition Temperature⁶ Cured for 2 h @ 70°C	65°C

(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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