

ANCAMINE® 1916 Curing Agent**DESCRIPTION**

Ancamine 1916 curing agent is an aliphatic amine adduct intended for use with liquid epoxy resins at room or elevated temperature cure.

ADVANTAGES

- Very good chemical and boiling water resistance
- Ability to provide good color, high rigidity and physical strength
- FDA approved under 21 CFR 175.300 (coatings and cements) and 21 CFR 175.105 (adhesives)
- Good chemical resistance to aqueous acids and alkalis, distilled water, and hydrocarbon solvents

APPLICATIONS

- FDA-compliant, solvent-free and solution coatings
- Heat-resistant coatings
- Wet lay-up laminates
- Small castings
- Patch repair kits

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 1916 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.

TYPICAL CURE SCHEDULE

- 1) 2-7 days at ambient temperature.
- 2) Gel at ambient temperature plus 2 hours at 212°F (100°C).

TABLE 1: TYPICAL PROPERTIES

Appearance	Clear, Straw-Colored Liquid
Color (Gardner)	4
Viscosity @ 77°F (25°C) (cP)	6,000
Amine Value (mg KOH/g)	840
Specific Gravity @ 77°F (25°C)	1.1
Density @ 77°F (25°C)(lb/gal)	9.1
Flash Point (°F)	225
Equivalent Wt/{H}	43
Recommended Use Level (phr, EEW=190)	25

TABLE 2: TYPICAL HANDLING PROPERTIES*

Mixed Viscosity @ 77°F (25°C) (cP)	9,300
Gel Time [150g mix @ 77°F (25°C)] (min)	23
Thin Film Set Time @ 77°F (25°C) (h)	4
Peak Exotherm [100g mix @ 77°F (25°C)] (°F)	322
Peak Exotherm Time (min)	32

TABLE 3: TYPICAL PERFORMANCE*

(Cure Schedule 2)	
Heat Deflection Temperature (ASTM D648-264 psi) (°F)	226
Flexural Strength (psi)	12,500
Flexural Modulus (thousand psi)	334
Tensile Strength (psi)	3,900
Tensile Modulus (thousand psi)	390
Elongation (%)	1.2
Barcol Hardness (Model GYZJ-935)	87
Bond Strength (mild steel to mild steel) (psi)	1,525

* Ancamine 1916 curing agent formulated with standard Bisphenol-A based (DGEBA, EEW=190) epoxy resin

Epoxy Curing Agents and Modifiers

ANCAMINE® 1916 Curing Agent

EVONIK CORPORATION

7201 Hamilton Blvd.
Allentown, PA 18195
1 800 345-3148
Outside U.S. and Canada 1 610 481-6799

For Technical Information and Support:

Americas: picus@evonik.com
EMEA: apcse@evonik.com

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