

ANCAMINE® 1608 Curing Agent**DESCRIPTION**

Ancamine 1608 is a modified aliphatic polyamine adduct curing agent designed for use as an ambient temperature curing agent for epoxy resin. It provides outstanding resistance to solvents and alcohols when formulated into solvent-free and high-solids coatings with liquid epoxy resin/epoxy novolac combinations. In addition, this light colored rapid curing aliphatic amine adduct imparts good mechanical properties when used in adhesives, laminates and electrical applications.

ADVANTAGES

- Excellent chemical resistance against trichloroethane, xylene, water, detergent solutions, inorganic acids, alkalis and denatured alcohols
- Good chemical resistance against alcohols and skydrol
- Good mechanical properties in adhesives, laminates, and electrical applications
- Fast cure accelerator

APPLICATIONS

- Solvent-free and high-solids coatings
- Adhesives, laminates and electrical applications

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 1608 curing agent.

TABLE 1: TYPICAL PROPERTIES

Appearance	Clear straw coloured liquid
Color (Gardner)¹	9
Viscosity @ 25°C (mPa.s)²	3,000-5,000
Amine Value (mg KOH/g)³	775-825
Specific Gravity @ 21°C (g/ml)	1.07
Equivalent Wt/{H}	44
Recommended Use Level (PHR)⁴	20

TABLE 2: TYPICAL HANDLING PROPERTIES

Mixed Viscosity @ 25°C (mPa.s)²	1,000
Gel Time 150 g mix @ 25°C (min)⁵	14
Peak Exotherm (150g mix at 25°C), (°C)	152
Time to Peak Exotherm (min)	42
Thin Film Set Time 25 °C (h)⁶	4
Typical Cure Schedule 2-7 days	

TABLE 3: TYPICAL PERFORMANCE PROPERTIES⁴

Tensile Strength, [MPa]⁷	36
Tensile Modulus, [GPa]⁷	2.8
Tensile Elongation at Break, [%]	1.4
Flexural Strength, [MPa]⁸	99
Flexural Modulus, [GPa]⁸	2.6
Heat Deflection Temperature, [°C]⁹	100

Footnotes:

- (1) ASTM D 1544-80
- (2) Brookfield RVTD, spindle 4
- (3) Perchloric Acid Titration
- (4) With Bisphenol-A diglycidyl ether (EEW=190)
- (5) Techne GT-3 Gelation Timer
- (6) BK Drying Recorder Phase III
- (7) ISO 527
- (8) ISO 178
- (9) ASTM D648

Epoxy Curing Agents and Modifiers

ANCAMINE® 1608 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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