

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 coloured rapid curing aliphatic amine adduct imparts good mechanical properties when used in adhesives, laminates and electrical applications.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Clear Straw Coloured Liquid		
Colour	9	Gardner	ASTM D 1544-80
Viscosity @ 25°C	3,000-5,000	mPa.s	Brookfield RVTD, Spindle 4
Amine Value	775-825	mg KOH/g	Perchloric Acid Titration
Specific Gravity @ 21°C	1.07	g/ml	
Equivalent	38	Wt/{H}	
Recommended use Level	20	PHR	With Bisphenol A diglycidyl ether (EEW=190)

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 curing 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.

TYPICAL HANDLING PROPERTIES

Property	Value	Unit	Method
Gel Time (150g mix @ 25°C)	14	mins	Techne GT-3 Gelation Timer
Peak Exotherm (150g mix at 25°C)	152	°C	
Time to Peak Exotherm	42	mins	
Thin Film Set Time @ 25°C	4	h	BK Drying Recorder Phase III
Typical cure schedule	2- 7 days		

TYPICAL PERFORMANCE PROPERTIES

Property	Value	Unit	Method
Tensile Strength	36	MPa	ISO 527
Tensile Modulus	2.8	GPa	ISO 527
Tensile Elongation at Break	1.4	%	
Flexural Strength	99	MPa	ISO 178
Flexural Modulus	2.6	GPa	ISO 178
Heat Distortion Temperature	100	°C	ASTM D648

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