

**ANCAMINE<sup>®</sup> 2320****Curing Agent****DESCRIPTION**

Ancamine 2320 is a modified cycloaliphatic polyamine intended for use as an ambient curing agent for liquid epoxy resin. It's based on similar curing agent technology as Ancamine 2280, therefore similarly high chemical resistance is achieved.

Cure speed and through cure of Ancamine 2320 are significantly improved compared to Ancamine 2280 which is particularly apparent at low temperatures. Additionally, Ancamine 2320 exhibits lower viscosity for higher filler loadings.

High Gardner colour and tendency to yellowing upon UV radiation need to be considered in the final application.

**TYPICAL PROPERTIES**

Property	Value	Unit	Method
Appearance	Amber liquid		
Colour	max 8	Gardner	ASTM D 1544-80
Viscosity @ 25°C	100-200	mPa.s	Brookfield RVTD, Spindle 4
Amine Value	280-320	mg KOH/g	Perchloric Acid Titration
Specific Gravity @ 21°C	1.06	g/ml	
Equivalent	95	Wt/{H}	
Recommended use Level	50	PHR	With Bisphenol A diglycidyl ether (EEW=190)

**ADVANTAGES**

- Excellent chemical resistance
- Good low temperature cure
- Excellent resistance to amine blush and water-spotting

**APPLICATIONS**

- Industrial flooring
- Chemically resistant tank lining and mortars
- High solids coatings
- Secondary containment

## 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 2320 curing agent.

## TYPICAL HANDLING PROPERTIES

Property	Value	Unit	Method
Mixed Viscosity @ 25°C	3,800	mPas	Brookfield RVTD, Spindle 4
Gel Time (150g mix @ 25°C )	31	mins	Techne GT-3 Gelation Timer
Peak Exotherm (150g mix @ 25°C)	153	°C	
Time to Peak Exotherm	40	mins	
Thin Film Set Time @ 25°C	5	h	BK Drying Recorder Phase III
Shore D 20°C (24 hours)	77		
Typical cure schedule	2- 7	days	

## TYPICAL PERFORMANCE PROPERTIES

Property	Value	Unit	Method
Tensile Strength	54	MPa	ISO 527
Tensile Modulus	4.6	GPa	ISO 527
Flexural Strength	86	MPa	ISO 178
Flexural Modulus	2.1	GPa	ISO 178
Heat Distortion Temperature	48	°C	ASTM D648
Carbamation Test	4		Scale 1-5 (5 is best)

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