

## Product information

# ANCAMINE® 1856

## Curing Agent

### DESCRIPTION

Ancamine 1856 is a modified aliphatic amine which has been designed for use as an ambient temperature curing agent for liquid epoxy resin. The ability to cure well and rapidly at temperatures down to 0-5°C under high humidity make it particularly useful for solventless coatings, concrete patch repair, adhesive and flooring applications. Where flexible coatings are required the use of upto 20 parts by weight of additives such as Epodil LV5 and benzyl alcohol are recommended.

### TYPICAL PROPERTIES

Property	Value	Unit
Appearance	Moderately viscous amber liquid	
Colour	max 8	Gardner
Viscosity @ 25°C	2,000-3,500	mPa.s
Amine Value	440-480	mg KOH/g
Specific Gravity @ 21°C	1.12	
Flash Point, (closed cup)	143	°C
Equivalent	73	Wt/{H}
Recommended use Level	40 parts per 100 parts of liquid epoxy resin having an (EEW=190)	

### SHELF LIFE

At least 24 months from date of manufacture in original sealed container stored undercover at ambient temperature away from excessive heat and humidity.  
Contains phenol — some discolouration can be expected with time.

### STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 1856 curing agent.

## CHEMICAL RESISTANCE

Good to excellent against water, inorganic acids and alkalis; Fair against organic acids and many organic solvents; Poor against ketones.

## TYPICAL HANDLING PROPERTIES

Property	Value	Unit
Gel Time (140g mix @ 25°C)	10	mins
Thin Film Set Time @ 25°C	2	h
Peak Exotherm (150g mix at 25°C)	143	
Time to Peak Exotherm	18	mins

## TYPICAL CURE SCHEDULE

2 – 7 days at ambient temperature

## TYPICAL PERFORMANCE PROPERTIES

Property	Value	Unit
(Following 7 days at ambient temperature)		
Heat distortion temperature	54	°C
Barcol hardness (Model GYZJ 935)	86	
Bond Strength (mild steel)	13.5	N/mm <sup>2</sup>
Flexural strength	45	N/mm <sup>2</sup>
Flexural modulus	2.39	KN/mm <sup>2</sup>
Tensile strength	28	N/mm <sup>2</sup>
Tensile modulus	2.44	KN/mm <sup>2</sup>
Elongation at break	1.0	%

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