

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.

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 PROPERTIES

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

TYPICAL HANDLING PROPERTIES

Gel Time (140g mix at 25°C), [mins]	10
Thin Film Set Time @ 25°C, [h]	2
Peak exotherm (100g mix at 25°C)	143
Time to Peak Exotherm [mins]	18

TYPICAL CURE SCHEDULE

2 – 7 days at ambient temperature

TYPICAL PERFORMANCE PROPERTIES

(Following 7 days at ambient temperature)	
Heat distortion temperature, oC	54
Barcol hardness (Model GYZJ 935)	86
Bond Strength (mild steel), N/mm²	13.5
Flexural strength, N/mm²	45
Flexural modulus, KN/mm²	2.39
Tensile strength, N/mm²	28
Tensile modulus, KN/mm²	2.44
Elongation at break, %	1.0

Epoxy Curing Agents and Modifiers

ANCAMINE® 1856 Curing Agent

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