

ANCAMINE® K54 Curing Agent**DESCRIPTION**

Ancamine K54 (tris-2,4,6-dimethylaminomethyl phenol) is an efficient activator for epoxy resins cured with a wide variety of hardener types including polysulphides, polymercaptans, aliphatic and cyclo-aliphatic amines, polyamides and amidoamines, dicyandiamide, anhydrides. Applications for Ancamine K54 as a homopolymerisation catalyst for epoxy resin include adhesives, electrical casting and impregnation, and high performance composites.

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container stored undercover at ambient temperature away from excessive heat and humidity.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine K54 curing agent.

TYPICAL PROPERTIES

Physical State	Amber liquid
Colour¹ (Gardner)	6 max
Viscosity² @ 25°C [mPa.s]	120-250
Amine Value³ [mg KOH/g]	630
Assay as K54, %	96.0 min
Specific Gravity @ 25°C, [g/ml]	0.98
Flash Point (closed cup), °C	140
Boiling point °C	250
Free water, %	0.5 max

CATALYTIC USAGE

(i) 5-15 parts per 100 parts of standard liquid epoxy resin having an epoxide equivalent weight of 190

(ii) 2-5 parts per 100 parts of resin as an activator for other curing agents

(iii) 5-15 parts per 100 parts of standard liquid epoxy resin in co-cure with liquid polysulphide

TYPICAL HANDLING PROPERTIES

Gel Time⁴ (115g mix at 25°C), [mins]	45
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TYPICAL CURE SCHEDULE

1h @ 80°C as homopolymerisation catalyst	
Glass Transition Temperature⁵ (°C)	6

Footnotes:

(1) ASTM D 1544-80

(2) Brookfield RVTD, Spindle 4

(3) Perchloric Acid Titration

(4) Techne GT-4 Gelation Timer

(5) DSC

Epoxy Curing Agents and Modifiers

ANCAMINE® K54 Curing Agent

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