

ANCAMINE® 2199 Curing Agent**DESCRIPTION**

Ancamine 2199 curing agent is a modified cycloaliphatic polyamine adduct intended as an ambient temperature curing agent for liquid epoxy resin. Special features of this curing agent include its very low viscosity, excellent colour and colour stability, high reactivity and excellent surface appearance even when cured at low temperatures under conditions of high humidity.

Note chemical chelating with certain pigments can cause colour drift/change.

ADVANTAGES

- Low colour and good aesthetics
- Fast cure
- Low viscosity
- Good all round chemical resistance against alkalis, acids and hydrocarbon solvents; moderate against aggressive solvents

APPLICATIONS

- Self leveling floors
- Screed flooring
- Concrete primer and sealer coatings

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity in tightly closed containers.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 2199 curing agent.

TYPICAL PROPERTIES

Appearance	Almost colourless liquid
Colour¹ (Gardner)	≤ 2
Viscosity² @ 25°C [mPa.s]	40-110
Amine Value³ [mg KOH/g]	325-345
Specific Gravity @ 25°C	1.01
Equivalent Wt/{H}	95
Recommended use Level⁴ [PHR]	50

TYPICAL HANDLING PROPERTIES

Gel Time⁵ (150g mix at 25°C) [mins]	28
Mix Viscosity² @ 25°C [mPa.s]	1200
Thin Film Set time⁶ @25°C (H)	6.5
Peak exotherm (100g mix at 25°C),°C	126
Time to peak exotherm [mins]	55
Typical cure schedule	2- 7 days

TYPICAL PERFORMANCE PROPERTIES

Heat Distortion Temperature),°C	55
Flexural Strength⁷ (N/mm²)	59.4
Flexural Modulus⁷ (KN/mm²)	3.3
Tensile Strength⁸ (N/mm²)	53.7
Tensile Modulus⁸ (KN/mm²)	4.2
Hardness⁹, [Shore D]	74

Footnotes:

- (1) ASTM D 1544-80
- (2) Brookfield RVTD, Spindle 4
- (3) Perchloric Acid Titration
- (4) With Bisphenol A diglycidyl ether (EEW=190)
- (5) Techne GT-3 Gelation Timer
- (6) BK Drying Recorder Phase I
- (7) ISO 527
- (8) ISO 178
- (9) ASTM D2240-86

Epoxy Curing Agents and Modifiers

ANCAMINE® 2199 Curing Agent

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