

ANCAMINE® 2512 Curing Agent**DESCRIPTION**

Ancamine 2512 is a modified cycloaliphatic polyamine intended for use as a room temperature curing agent for liquid epoxy resin. It offers rapid development of physical properties at ambient and low temperature down to 10°C, for a fast return to service. Using advanced adduct technology Ancamine 2512 provides excellent carbamation and early water spot resistance that combined with its low viscosity make Ancamine 2512 the ideal all-round performance cycloaliphatic curing agent for solvent free or high solids coatings in a variety of civil engineering applications.

ADVANTAGES

- Excellent resistance to carbamation and waterspotting
- Rapid cure and development of properties at ambient and low temperature
- Very good chemical resistance
- Low viscosity

APPLICATIONS

- Chemically resistant high solids and solvent free coatings
- Industrial flooring applications such as self-leveling floors and mortar floors
- Accelerator for other curing agents

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. Discolouration can be expected with time and on exposure to light. Product may appear pink when stored in IBC's.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 2512 curing agent.

TYPICAL PROPERTIES

Appearance	Clear light yellow liquid
Colour¹ (Gardner)	<3
Viscosity² @ 25°C [mPa.s]	200-300
Amine Value³ [mg KOH/g]	305-325
Specific Gravity @ 21°C	1.04
Equivalent Wt/{H}	93
Recommended use Level⁴, [PHR]	50

TYPICAL HANDLING PROPERTIES

Mixed Viscosity² at 25°C, [mPa.s]	2,100
Gel Time⁵ (150g mix at 25°C), [mins]	20
Thin Film Set Time⁶ @ 25°C, [h]	3.5
Shore D⁷ 20°C (8/24 hours)	70/82
Shore D⁷ 10°C (16/24 hours)	68/76
Typical cure schedule	2- 7 days

TYPICAL PERFORMANCE PROPERTIES

Compressive Strength⁸, [MPa]	85
Compressive Modulus⁸, [GPa]	2.0
Tensile Strength⁹, [MPa]	50
Tensile Modulus⁹, [GPa]	6.8
Flexural Strength¹⁰, [MPa]	87
Flexural Modulus¹⁰, [GPa]	3.0
Heat Distortion Temperature¹¹, [°C]	47
Carbamation Test¹²	4

Footnotes:

- (1) ASTM D 1544-80
- (2) Brookfield RVT, 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 III
- (7) DIN 53505
- (8) ISO 604
- (9) ISO 527
- (10) ISO 178
- (11) ASTM D648
- (12) Scale 1-5 (5 is best)

Epoxy Curing Agents and Modifiers

ANCAMINE® 2512 Curing Agent

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