

ANCAMINE® 2514 Curing Agent**DESCRIPTION**

Ancamine 2514 is a modified cycloaliphatic polyamine intended for use as room temperature curing agent for liquid epoxy resin. Using advanced adduct technology Ancamine 2514 provides excellent carbamation and early water spot resistance that make it ideal for use in all decorative coating applications. In comparison to Ancamine 2512, Ancamine 2514 offers a longer pot life while maintaining fast drying time and rapid development of physical properties at ambient and low temperature. Compared with typical cycloaliphatic technology, Ancamine 2514 offers superior flexibility.

ADVANTAGES

- Fast drying with long pot life
- Rapid cure and development of properties at ambient and low temperature
- Excellent resistance to carbamation and waterspotting
- Very good chemical resistance
- Good flexibility

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 the date of manufacture in the original sealed container at ambient temperature.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 2514 curing agent.

TYPICAL PROPERTIES

Appearance	Clear light yellow liquid
Colour¹ (Gardner)	<3
Viscosity² @ 25°C [mPa.s]	100-500
Amine Value³ [mg KOH/g]	285-315
Specific Gravity @ 25°C	1.06
Equivalent Wt/{H}	93
Recommended use Level⁴, [PHR]	50

TYPICAL HANDLING PROPERTIES

Mixed Viscosity² at 25°C, [mPa.s]	2,500
Gel Time⁵ (150g mix at 25°C), [mins]	33
Thin Film Set Time⁶ @ 25°C, [h]	3.5
Shore D⁷ 20°C (8/24 hours)	75/81
Shore D⁷ 10°C (16/24 hours)	61/77
Typical cure schedule	2- 7 days

TYPICAL PERFORMANCE PROPERTIES

Compressive Strength⁸, [MPa]	67
Compressive Modulus⁸, [GPa]	1.5
Tensile Strength⁹, [MPa]	52
Tensile Modulus⁹, [GPa]	6.0
Flexural Strength¹⁰, [MPa]	82
Flexural Modulus¹⁰, [GPa]	2.6
Heat Distortion Temperature¹¹, [°C]	45
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[®] 2514 Curing Agent

EVONIK RESOURCE EFFICIENCY GMBH
Business Line Crosslinkers
Paul-Baumann-Straße 1
45764 Marl
Germany

apcsepx@evonik.com
www.evonik.com/crosslinkers

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