

ANCAMINE® 2489 Curing Agent**DESCRIPTION**

Ancamine 2489 is a modified cycloaliphatic polyamine adduct intended for use as a room temperature curing agent for liquid epoxy resin. Ancamine 2489 has a very low viscosity which imparts low mixed viscosity in epoxy systems and reduced need for diluents. Ancamine 2489 offers fast property development. The low loading allows a 1:2 mix ratios with bisphenol F resins.

ADVANTAGES

- Very low viscosity and mixed viscosity in epoxy systems
- Fast cure and development of properties at ambient and low temperature
- Good chemical resistance

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 2489 curing agent.

TYPICAL HANDLING PROPERTIES

Mixed Viscosity² at 25°C, [mPa.s]	1,200
Gel Time⁵ (150g mix at 25°C), [mins]	24
Thin Film Set Time⁶ @ 25°C, [h]	3.5
Shore D⁷ 20°C (8/24 hours)	75/82
Shore D⁷ 10°C (16/24 hours)	74/76
Typical cure schedule	2- 7 days

TYPICAL PERFORMANCE PROPERTIES

Compressive Strength⁸, [MPa]	84
Compressive Modulus⁸, [GPa]	2.0
Tensile Strength⁹, [MPa]	59
Tensile Modulus⁹, [GPa]	6.8
Flexural Strength¹⁰, [MPa]	101
Flexural Modulus¹⁰, [GPa]	3.2
Heat Distortion Temperature¹¹, [°C]	47
Carbamation Test¹²	3

Footnotes:

- (1) ASTM D 1544-80
- (2) Brookfield RVT D, 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)

TYPICAL PROPERTIES

Appearance	Clear light yellow liquid
Colour¹ (Gardner)	<2
Viscosity² @ 25°C [mPa.s]	50-125
Amine Value³ [mg KOH/g]	345-375
Specific Gravity @ 21°C [g/ml]	1.04
Equivalent Wt/{H}	83
Recommended use Level⁴. [PHR]	44

Epoxy Curing Agents and Modifiers

ANCAMINE® 2489 Curing Agent

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