

**ANCAMIDE® 500** Curing Agent**DESCRIPTION**

Ancamide 500 is an aliphatic amidoamine curing agent designed for use with liquid epoxy resin. It can be used as the sole curing agent or mixed with other curing agents such as Ancamine 1608 or 1768 to adjust the cure rate or other properties. Special features of Ancamide 500 include low viscosity, long pot life and non-critical loading. Applications include concrete coatings, bonding new to old concrete, crack injection, flooring, electrical encapsulation and general purpose adhesives.

**ADVANTAGES**

- Long pot-life
- Low viscosity
- Non-critical loading
- Good adhesion to concrete

**APPLICATIONS**

- Concrete coatings
- Adhesives and concrete bonding
- Crack injection
- Flooring
- Electrical encapsulation

**SHELF LIFE**

At least 24 months from the date of manufacture in the original sealed container at ambient temperature. Material may crystallize or solidify upon exposure to low temperatures. Crystallized or solidified material can be utilized after melting at elevated temperatures without impacting handling or physical properties. It is recommended that the material be heated to 50-70°C while mixing continuously for 1 h. Once the solidified material has fully homogenized, it can be cooled to room temperature and utilized under normal conditions.

**STORAGE AND HANDLING**

Refer to the Safety Data Sheet for Ancamide 500 curing agent.

**TYPICAL PROPERTIES**

<b>Appearance</b>	Amber liquid
<b>Colour<sup>1</sup> (Gardner)</b>	10
<b>Viscosity<sup>2</sup> @ 25 °C, [mPa.s]</b>	200-450
<b>Amine Value<sup>3</sup>, [mg KOH/g]</b>	420-465
<b>Specific Gravity @ 21°C, [g/ml]</b>	0.95
<b>Equivalent Wt/{H}</b>	90
<b>Recommended use Level<sup>4</sup>, [PHR]</b>	50

**TYPICAL HANDLING PROPERTIES**

<b>Mixed Viscosity<sup>2</sup> at 25°C, [mPa.s]</b>	3,000
<b>Gel Time<sup>5</sup> (150g mix at 25°C), [mins]</b>	40
<b>Peak Exotherm (150g mix at 25°C), [°C]</b>	158
<b>Thin Film Set Time<sup>6</sup> 25°C, [h]</b>	7.5
<b>Typical cure schedule</b>	2- 7 days

**TYPICAL PERFORMANCE PROPERTIES**

<b>Compressive Strength<sup>7</sup>, [MPa]</b>	78
<b>Tensile Strength<sup>8</sup>, [MPa]</b>	47
<b>Tensile Modulus<sup>8</sup>, [GPa]</b>	2.3
<b>Flexural Strength<sup>9</sup>, [MPa]</b>	79
<b>Flexural Modulus<sup>9</sup>, [GPa]</b>	1.9
<b>Heat Distortion Temperature<sup>10</sup>, [°C]</b>	45
<b>Tensile Elongation at Break [%]</b>	2.0

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 III
- (7) ISO 604
- (8) ISO 527
- (9) ISO 178
- (10) ASTM D648

Epoxy Curing Agents and Modifiers

# ANCAMIDE® 500 Curing Agent

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