

# Ancamide<sup>®</sup> 512 Curing Agent

## DESCRIPTION

Ancamide 512 is an aliphatic amidoamine curing agent designed for use with liquid epoxy resin at ambient or elevated temperatures. It can be used as the sole curing agent or in a mixture with other amine-based curing agents to adjust the cure rate or other properties.

## ADVANTAGES

- Low viscosity
- Relative long pot life
- Non-critical mixing ratio
- Excellent adhesion to concrete

## APPLICATIONS

- Concrete coatings
- Trowelable flooring
- Concrete repair
- Grouts
- Structural composites

## TYPICAL CURE SCHEDULE

- 7-14 days at ambient
- 2 days @ 25°C + 2hrs @ 100°C

## STORAGE AND HANDLING

Refer to the Safety Data Sheet on Ancamide 512 Curing Agent

## SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature.

TABLE 1: TYPICAL PROPERTIES

Appearance	Clear, yellow liquid
Color (Gardner) <sup>1</sup>	<10
Viscosity @ 25°C (cPs) <sup>2</sup>	300-450
Amine Value (mg KOH/g) <sup>3</sup>	400-500
Specific Gravity @ 21°C	0.93
Equivalent Wt/{H}	100-110
Recommended Use Level (phr) <sup>4</sup>	50

TABLE 2: TYPICAL HANDLING PROPERTIES<sup>4</sup>

Mixed Viscosity @ 25°C (cPs)	2100
Gel Time (min, 150 g mass, 25°C) <sup>5</sup>	96
Thin Film set time (h, 25°C) <sup>5</sup>	11
Hardness Shore D @ 25°C (24h/day)	80/86

TABLE 3: TYPICAL PERFORMANCE PROPERTIES<sup>4</sup>

(7 day cure at 25°C)		
Tensile Strength <sup>7</sup>	47 MPa	6.8 ksi
Tensile Modulus <sup>7</sup>	2.1 GPa	304 ksi
Tensile Elongation @ Break <sup>7</sup>	6.2%	
Compressive Strength <sup>8</sup>	76 MPa	11 ksi
Compressive Modulus <sup>8</sup>	2.1 GPa	304 ksi
Flexural Strength <sup>9</sup>	77 MPa	11 ksi
Flexural Modulus <sup>9</sup>	1.5 GPa	217 ksi

(1) ASTM D 1544-80

(2) ASTM D 2196-05, Brookfield RVTD

(3) Perchloric acid titration

(4) Bisphenol A diglycidyl ether resin (EEW=190)

(5) Techne GT-3 Gelation Timer

(6) BK Drying Recorder phase III

(7) ASTM D 638

(8) ASTM D 695

(9) ASTM D 790

Epoxy Curing Agents and Modifiers

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