

ANCAMIDE® 2137 Curing Agent**DESCRIPTION**

Ancamide 2137 curing agent is an amidoamine designed for use with liquid epoxy resins in the formulation of high-solids, low-VOC coatings. Compared with other products of this type, it has a much lower viscosity and a markedly faster thin film set time. Gel time is also much shorter.

ADVANTAGES

- Resistance to blush and exudation
- Excellent flexibility and impact resistance
- Noncritical loading of between 70-100 phr, including 1:1 by volume with standard liquid epoxy resins (improved chemical resistance attainable at 70 phr loading, whereas at 100 phr, flexibility and impact resistance are increased)
- DOT noncorrosive

APPLICATIONS

- Primers for steel and concrete
- Adhesives, putties, sealants and flexible cable joint compounds
- High-solids coatings for maintenance and marine applications

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature. Store away from excessive heat and humidity in tightly closed containers.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 2137 curing agent.

TYPICAL CURE SCHEDULE

7 days at ambient temperature.

TABLE 1: TYPICAL PROPERTIES

Appearance	Amber liquid
Color (Gardner)¹	7
Viscosity @ 77°F (25°C) (cP)²	1,800
Specific Gravity @ 77°F (25°C)	1.039
Amine Value (mg KOH/g)	300
Equivalent Wt/{H}	150
Recommended Use Level (phr, EEW=190)	70

TABLE 2: TYPICAL HANDLING PROPERTIES*

	70 phr	100 phr
Mixed Viscosity (cP)	4,660	—
Gel Time [150g mix @ 77°F (25°C)] (min)	27	24
Thin Film Set Time:		
@ 77°F (25°C) (h)	3.0	2.0
@ 40°F (5°C) (h)	18	—

TABLE 3: TYPICAL PERFORMANCE*

(14 day cure @ 77°F)		
Bond Strength (mild steel to mild steel) (psi)	1,600	1,300
1/8" Mandrel Bend	Pass	Pass
Impact Resistance (in lb):		
Direct	125	>150
Reverse	23	109
Glass Transition Temperature (°F)	109	—
Compressive Strength (psi)	7,700	—
Compressive Modulus (thousand psi)	240	—
Tensile Strength (psi)	6,500	—
Tensile Modulus (thousand psi)	419	—
Tensile Elongation (%)	8.5	—
Flexural Strength (psi)	9,800	—
Flexural Modulus (thousand psi)	315	—

* Ancamide 2137 curing agent formulated with standard Bisphenol-A based (DGEBA, EEW=190) epoxy resin.

Footnotes:

(1) ASTM D1544-80

(2) Brookfield, ASTM D445-83

Epoxy Curing Agents and Modifiers

ANCAMIDE® 2137 Curing Agent

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