

## Product information

# ANCAMIDE<sup>®</sup> 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.

### TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Amber liquid		
Color	7	Gardner	ASTM D1544-80
Viscosity @ 77°F (25°C)	1,800	cP	Brookfield, ASTM D445-83
Specific Gravity @ 77°F (25°C)	1.039		
Amine Value	300	mg KOH/g	
Equivalent Wt/{H}	150		
Recommended Use Level	70	phr, EEW=190	

### 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

### STORAGE AND HANDLING

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

## 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.

## TYPICAL CURE SCHEDULE

7 days at ambient temperature.

## TYPICAL HANDLING PROPERTIES\*

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

## TYPICAL PERFORMANCE\*

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

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

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