Product information

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.

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.

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

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

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