

Ancamide[®] 2830 Curing Agent

DESCRIPTION

Ancamide 2830 curing agent is a low viscosity modified polyamide amine curative that does not require an induction time. It is designed to provide high solids, low VOC formulation capabilities and is intended for use with liquid epoxy resins in two-part ambient cure systems.

ADVANTAGES

- High solids (no solvents)
- Low viscosity
- High gloss
- Excellent corrosion resistance
- No induction time
- Excellent blush resistance

APPLICATIONS

- Industrial coatings
- General protective coatings
- Glossy topcoat for light industrial coatings

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamide 2830 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

2-7 days at ambient temperature.

TABLE 1: TYPICAL PROPERTIES

Appearance	Clear amber liquid
Color (Gardner)¹, max	9
Viscosity @ 25°C (cP,s)²	3,000-6,000
Specific Gravity @ 21°C³	1.01
Amine Value (mg KOH/g)⁴	200-230
Equivalent Wt/{H}	162
Recommended Use Level (phr)	85

TABLE 2: TYPICAL HANDLING PROPERTIES

Gel Time⁵ 150g mix @ 25°C, min	36.3
Dry Times⁶ TFST Phase 2/3 @ 25°C	6.0/6.5
Gloss Properties⁷	
20 degrees	97.8
60 degrees	105.0
Carbamation⁸ Resistance @ 25°C, 1-5 (5 is best)	5

TABLE 3: MECHANICAL PROPERTIES

Persoz Hardnes⁹ Day 7 (s) @ 25°C	312
Shore D¹⁰ Hardness 25°C Day 1/Day 7	40/82
Direct Impact Resistance¹¹ (lb/in) Day 7	28
Reverse Impact Resistance¹¹ (lb/in) Day 7	100
Tg¹² (C) Second Scan, initial	33
Tg¹² (C) Second Scan, Day 7	53

- (1) ASTM D1544-80
- (2) ASTM D445-83 Brookfield, RVTD, Spindle 4
- (3) ASTM D1475-85
- (4) Perchloric Acid Titration
- (5) Techne GT-4 Gelation Time
- (6) BK Drying Recorder, ASTM 5895
- (7) ASTM D523-85
- (8) ISO 2812 (wet patch method) after 24 hours at 23°C
- (9) ASTM D 4366-16
- (10) ASTM D2440-86
- (11) ASTM D 2794
- (12) ASTM D3418-82

Ancamide® 2830 Curing Agent**STARTING POINT FORMULATION FOR ANTI-CORROSIVE PRIMER**

Component	Description	Source	Weight (lbs)	Volume (gal)
PART-A				
Liquid Epoxy Resin	Epon 828	Hexion	252.63	26.04
Dispersant	Nuosperse	Elementis	5.82	0.75
Rheology Modifier	Bentone SD-2	Elementis	9.31	0.69
Solvent	Xylene		144.8	20.0
Solvent	n-butanol		23.38	3.45
Pigment	Bayferrox 130M	Lanxess	93.14	2.24
Pigment	Heucophos ZCP Plus	Heubach Intl	145.53	5.08
Filler	Blanc Fixe Micro	Sachtleben Chemie	209.56	5.59
Filler	Wollastocoat 10 ES	Nyco Minerals	139.7	5.77
Filler	Mica White 325M		116.42	4.69
Total A			1140.29	74.3
PART-B				
Ancamide 2830	Polyamide Curing Agent	Evonik	215.51	25.7
Total B			215.51	25.7

ANTI-CORROSIVE PRIMER FORMULATION PROPERTIES AND PERFORMANCE

Property	Value
Density (lb/gal)	14.78
Non-volatile weight (%)	81.44
Non-volatile volume (%)	67.90
PVC (%)	31
VOC (lb/gal)	2.69
VOC (g/L)	322
Salt Spray 800h	Rating 10
Prohesion 800 h	Rating 10

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