

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.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Clear amber liquid		
Color, max	9	Gardner	ASTM D1544-80
Viscosity @ 25°C	3,000-6,000	cP,s	ASTM D445-83 Brookfield, RVTD, Spindle 4
Specific Gravity @ 21°C	1.01		ASTM D1475-85
Amine Value	200-230	mg KOH /g	Perchloric Acid Titration
Equivalent Wt/{h}	162		
Recommended Use Level	70-100	phr	

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.

TYPICAL HANDLING PROPERTIES

Property	Value	Unit	Method
Gel Time 150g mix @ 25°C	36.3	min	Techne GT-4 Gelation Time
Dry Times TFST Phase 2/3 @ 25°C	6.0/6.5		BK Drying Recorder, ASTM 5895
Gloss Properties			ASTM D523-85
20 degrees	97.8		
60 degrees	105.0		
Carbamation Resistance @ 25°C, 1-5 (5 is best)	5		ISO 2812 (wet patch method) after 24 hours at 23°C

MECHANICAL PROPERTIES

Property	Value	Method
PersoZ Hardnes Day 7 (s) @ 25°C	312	ASTM D 4366-16
Shore D Hardness 25°C Day 1/Day 7	40/82	ASTM D2440-86
Direct Impact Resistance (lb/in) Day 7	28	ASTM D 2794
Reverse Impact Resistance (lb/in) Day 7	100	ASTM D 2794
Tg (C) Second Scan, initial	33	ASTM D3418-82
Tg (C) Second Scan, Day 7	53	ASTM D3418-82

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 800h	Rating 10

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