Product information

ANCAMINE® 2811

Curing Agent

DESCRIPTION

Ancamine® 2811 is a phenalkamine based modified amine curing agent. It is formulated to be Hazardous Air Pollutant (HAPs)-free. Ancamine 2811 provides fast drying times and corrosion resistance. It can be used in high solids ambient cure coatings and heavy-duty coatings applications.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Dark amber liquid		
Colour	≤18	Gardner	ASTM D 1544-80
Viscosity @ 25°C	1700-3400	mPa.s	Brookfield RV-DVII, spindle 27 @25°C
Amine Value	173	mg KOH/g	Perchloric acid titration
Specific Gravity @ 21°C	1.02		
Equivalent Wt/{H}	255		
Recommended Use Level	134	phr	With bisphenol- A based epoxy resin (EEW=190)

ADVANTAGES

- Good corrosion resistance
- Fast cure
- Good blush resistance
- HAPs free

APPLICATIONS

- Marine coatings
- High build and barrier coatings
- Industrial maintenance coatings

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.

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STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 2811 curing Agent.

TYPICAL HANDLING PROPERTIES

Property	Value	Unit	Method
Gel Time @ 25°C	26	min	Techne GT-6 Gelation Timer, 150 g total mix
Thin Film Set Time @ 25°C	1:30/ 1:45	h	ASTM D 5895 - BK Drying Recorder, Phase 2/3, 50%RH @ 3 wet mils
Shore D (25°C) Day 1/ 7	45/ 68		
Persoz Pendulum Hardness 7 days @ 25°C	302	s	ASTM D 4366
Tg °C (Intial/7 day Cure @ 25°C 50% RH), second scan	43/ 57		
Carbamation Resistance (Scale 1-5, 5=best)	5		ISO 2812 (wet patch method), after 24hrs @ 23°C

STARTING POINT FORMULATION FOR ANTI-CORROSIVE PRIMER

Part A - Component	Description	Source	Weight (lbs)	Volume (gal)
Liquid Epoxy Resin	Epon 828	Hexion	217.0	22.37
Dispersant	Nuosperse 657	Elementis	7.76	0.64
Rheology Modifier	Bentone SD-2	Elementis	13.29	0.59
Solvent	Xylene		142.3	19.65
Solvent	n-butanol		17.4	2.57
Pigment	Bayferrox 130M	Lanxess	80.0	1.92
Pigment	Heucophos ZCP Plus	Heubach Intl	125.0	4.36
Filler	Blanc Fixe Micro	Sachtleben Chemie	180.0	4.8
Filler	Wollastocoat 10 ES	Nyco Minerals	120.0	4.96
Filler	Mica White 325M		100.0	4.04
Total A			**1002.95**	**65.9**
Part B-Component				
Ancamine 2811	Curing Agent	Evonik	290.0	34.1
Total B			**290.0**	**34.1**
Total A and B			**1292.95**	**100.0**

Property	Value	Unit	Method
Density	12.93	lb/gal	
Non-volatile weight	80.20	%	
Non-volatile volume	65.20	%	
PVC	31.24	%	
VOC	2.58	lb/gal	
VOC	309.6	g/L	

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