

ANCAMINE[®] 2441**Curing Agent****DESCRIPTION**

Ancamine 2441 curing agent is a modified polyamine which was designed for use as a latent curing agent for one-component adhesive formulations. The product can also be used as an accelerator for dicyandiamide (dicy). Its combination of low temperature activation, good shelf life and high glass transition temperature permits use in many applications requiring latency and high performance.

TYPICAL PROPERTIES

Property	Value	Unit	Method
Appearance	Micronized White Powder		
Melting Point	124-135	°C	
Particle Size (90%)	< 10	µm	
Recommended use Level	20	PHR	With Bisphenol A diglycidyl ether (EEW=190)
Recommended use Level	2-8	PHR	With Bisphenol A diglycidyl ether (EEW=190) and 4-8 PHR dicyandiamide

ADVANTAGES

- Excellent reactivity
- Improved green strength development
- Good formulation shelf stability
- High glass transition temperature

APPLICATIONS

- One-component convection or induction heat-cured adhesives
- Powder coatings
- Potting compounds
- Coatings
- Hot-melt pre-pregs
- Anhydride accelerator

SHELF LIFE

At least 24 months from the date of manufacture in the original sealed container at ambient temperature.

STORAGE AND HANDLING

Refer to the Safety Data Sheet for Ancamine 2441 curing agent.

TYPICAL PERFORMANCE PROPERTIES

Formulation	I	II	Unit	Method
Liquid Epoxy Resin (EEW=190)	100	100		
Amicure CG 1200 (Dicy)	6			
Ancamine 2441	5	20		
Fumed Silica	1	1		
DSC Activation Temperature	124	100	°C	Heating rate 10°C/min
Glass Transition Temperature	135	114	°C	DSC second scan; heating rate 10°C/min
Lap Shear Strength	8	11	MPa	Cold rolled steel coupons 25 x 100 (12.5mm overlap; 0.25 mm bondline) Cold rolled steel coupons 25 x 100 (12.5mm overlap; 0.25 mm bondline)
Pot Life	> 3	> 3	month	

TYPICAL HANDLING PROPERTIES

Typical cure schedule: 30 min @ 120°C

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