

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.

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 PROPERTIES

Appearance	Micronized White Powder
Melting Point, [°C]	124-135
Particle Size (90%), [µm]	< 10
Recommended use Level¹, [PHR]	20
Recommended use Level², [PHR]	2-8

TYPICAL PERFORMANCE PROPERTIES

Formulation	I	II
Liquid Epoxy Resin (EEW=190)	100	100
Amicure CG 1200 (Dicy)	6	—
Ancamine 2441	5	20
Fumed Silica	1	1
DSC Activation Temperature³, [°C]	124	100
Glass Transition Temperature⁴, [°C]	135	114
Lap Shear Strength⁵, [MPa]	8	11
Pot Life, [months]	> 3	> 3

TYPICAL HANDLING PROPERTIES

Typical cure schedule	30 min @ 120°C
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Footnotes:

- (1) With Bisphenol A diglycidyl ether (EEW=190)
- (2) With Bisphenol A diglycidyl ether (EEW=190) and 4-8 PHR dicyandiamide
- (3) Heating rate 10°C/min
- (4) DSC second scan; heating rate 10°C/min
- (5) 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)

Epoxy Curing Agents and Modifiers

ANCAMINE® 2441 Curing Agent

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