

Casamid™ 779

Accelerated dicyandiamide



Broad-spectrum
efficacy



Enhanced
formulation
compatibility



Stable,
solid form



Product Description

Casamid® 779 is an accelerated dicyandiamide-type curing agent designed for epoxy resin-based powder coatings. It enables rapid curing and high gloss decorative finishes, making it ideal for high-performance decorative and protective coatings. This curing agent offers excellent chemical resistance and high gloss; due to its fine particle size, it disperses easily during powder production. Casamid® 779 is fully compatible with dicyandiamide and other accelerated dicyandiamide curing agents, providing flexibility in formulation development. The recommended minimum cure schedule is 6 minutes at 160°C (metal temperature), ensuring efficient processing and high-quality film formation.

Applications

- Decorative materials and finishes for building & construction such as decorative paints, coatings and stains
- High-gloss epoxy powder coatings for home appliances, consumer goods and office furniture requiring chemical resistance and durability
- Components and parts in the automotive and transportation sectors where rapid curing at moderate temperatures is beneficial
- Industrial equipment, lighting fixtures and electrical housings where durable epoxy coatings provide protection and aesthetics
- General decorative and protective powder coatings across a wide range of metal substrates

Features and Benefits

- Rapid curing at moderate bake temperature: Cures in 6 minutes at 160°C for efficient production and reduced energy consumption
- Chemical resistance & high gloss: Provides excellent chemical resistance and high gloss decorative appearance for durable coatings
- Easy dispersion & formulation flexibility: fine particle size disperses easily and is fully compatible with dicyandiamide and other accelerated curing agents for flexible formulation

Mode of Action

Casamid 779 remains latent at ambient temperatures. Upon heating above 160°C the accelerated dicyandiamide reacts with epoxy groups to form a cross-linked network, delivering rapid cure and high film performance.

Typical Properties

Sieve Analysis: $\geq 95\%$ passing 75 μm ; Gel time (5 phr in type-3 epoxy resin at 180°C): 53–65 s

Specific Gravity: 1.36

Use Level: 5–6 phr



Committed to Responsible Care



Thomas Swan
Industrial Specialities

Casamid™ 779

Physical and Chemical Properties

Chemical Name:	Accelerated dicyandiamide curing agent; Synonyms: Modified dicyandiamide
CAS Number:	Proprietary mixture
Physical Form: Fine powder	Fine powder
Appearance:	White powder
HS Code (UK Export): 2926.20.00 (Cyanamide derivatives)	???

Selling Specification

Appearance	White powder
Amine value (mg KOH/g)	55–65
Moisture content (%)	Max 0.2
Passing 75 µm sieve (%)	Min 95

Packaging

Available in 25 kg nett weight, polyethylene lined, fibre board boxes

Shelf Life

Store under cool, dry conditions. It is recommended that the material be used within 12 months of certification.

Handling

Avoid contact with the skin and eyes and wear appropriate dust mask. Further details can be obtained from the relevant Health and Safety Data Sheet.

Guidelines for Use

Typical dosage: 0.1–0.5% w/w depending on end-use formulation.

Can be blended with surfactants directly or pre-dispersed in alcohols for liquid systems.

Effective in pH ranges of 4–9.

Compatible with most formulation excipients, including anionics, non-ionics, and thickeners.

TBC

Inventory Status

Australia (AICS)	Canada (DSL/NDL)	China (IECSC)	Indonesia	Israel	Japan (ENCS)	Korea (MEO/ECL/AREC)	Malaysia (EHSNR)	Mexico (INSQ)
✓	✓	✓	✗	✗	✓	✓	✓	✓
New Zealand	Philippines (PICCS)	Taiwan (TCSI)	Thailand (TDCA)	Vietnam (VNECI)	UK (REACH)	EU (REACH)	US (TSCA/FDA)	
✓	✓	✓	✓	✓	Grandfathered	Registered	Active	

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