

Casamid® DMPF

High Gloss Curing Agent for Powder Coatings



Controlled and predictable curing



Excellent stability at ambient conditions



UK manufacture, integrated global supply network

Product Description

Casamid® DMPF is a grade of dicyandiamide, ground to a very fine particle size, for use in epoxy resin based powder coatings and contains a flow agent to aid storage and handling. This curing agent becomes active as a hardener for the resin only when heated above 150°C

Applications

- Appliances – ovens, refrigerators, washing machines - ensures durable coatings that withstand cleaning agents, moisture, and high temperatures
- Automotive parts – underbody components, suspension parts, engine brackets, and housings where resistance to vibration, temperature fluctuations, and corrosion is critical
- Furniture and fixtures – office furniture, shelves, filing cabinets, and metal seating frames that benefit from hard, chip-resistant finishes provided by DICY-cured epoxy systems
- Architectural components – metal doors, windows, railings, fencing - excellent outdoor durability and corrosion resistance.
- Electrical enclosures and switchgear – panels, junction boxes
- Industrial machinery and tools – housings, frames, and parts exposed to mechanical stress and chemical agents. DICY-based systems provide lasting performance
- Consumer products – bicycles, grills, power tools, garden equipment, and metal storage units

Features and Benefits

- Provides controlled and predictable curing in epoxy systems
- Supports good edge coverage and adhesion in high-performance coatings
- Fully compatible with most commercial epoxy resins (EEW 700–750)
- Can be combined with accelerators or co-curing agents to tailor cure profiles
- High-purity dicyandiamide, quality controlled for use in industrial formulations
- Energy independent as a result of our on-site anaerobic digestion facility
- Trusted partner- celebrating 100 years of chemical manufacturing in 2026 Global network of sales offices, direct logistics and US and UK formulating production centres ensuring security of supply and short lead times from stock



Committed to Responsible Care



Thomas Swan
Industrial Specialities

Casamid® DMPF

Selling Specification

| | |
|-------------------------|--------------|
| Colour (Visual) | White powder |
| Moisture content (%) | Max 0.2 |
| Passing 75 µm sieve (%) | Max. 95 |

Mode of Action

Casamid® DMPF is a latent curing agent that remains unreactive at ambient conditions and becomes active only upon heating above approximately 150°C. It reacts with epoxy functional groups to form a thermoset network, providing excellent final coating properties such as chemical resistance, thermal stability, and mechanical strength.

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

Casamid® DMPF is neither flammable, corrosive nor explosive. It is stable when dry but above 80°C decomposes slowly in aqueous solution to give ammonia. Avoid contact with skin and eyes and wear appropriate dust mask. Further details can be obtained from the relevant Safety Data Sheet.

Guidelines for Use

Typical use level: 5–6 phr depending on epoxy resin and desired cure profile

Can be used with accelerators (e.g., urea or imidazole derivatives) to reduce cure time

Ensure uniform premix blending before extrusion

Inventory Status

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|------------------|---------------------|---------------|-----------------|-----------------|---------------|----------------------|------------------|---------------|
| 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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