

Casamid® 1457

Reactive Matting Agent for Hybrid Powder Coatings



Ultimate Gloss Control



Ultra Smooth Finish



UK manufacture, integrated global supply network

Product Description

Casamid® 1457 is a specially formulated gloss-reducing curing agent for use in mid to pale shade hybrid powder coatings. It enables precise gloss control from semi-gloss to matt finishes, while maintaining excellent flow and surface aesthetics in formulations with high titanium dioxide content.

Applications

- Hybrid powder coatings: enables low to mid gloss finishes with excellent durability
- Indoor appliances & furniture: improves aesthetics and uniform finish on white goods and commercial interiors
- Architectural metal parts: delivers matte appearance and smooth surface flow in decorative aluminium profiles

Features and Benefits

- Provides tunable gloss from 15% to 60% depending on formulation.
- Optimised for pale shades is ideal for TiO₂-rich formulations without yellowing.
- Integrates seamlessly into hybrid polyester/epoxy powder systems.
- Promotes uniform distribution and avoids surface defects.
- Ensures easy mixing and repeatable performance.
- Maintains gloss reduction under variable cure conditions.
- 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.

Mode of Action

Casamid® 1457 reacts with the epoxy component in hybrid powder coatings to generate a uniform, crosslinked matrix. Its gloss-reducing function arises from subtle differences in curing speed and diffusion between epoxy and polyester, resulting in micro-roughness at the surface that scatters light effectively.

Selling Specification

Appearance	free flowing, white powder
Sieve Analysis	minimum 95% passing 53 microns
Specific Gravity	0.91
Use Level	8-11 PHR



Committed to Responsible Care


Thomas Swan
Industrial Specialities

Casamid® 1457

Packaging

Available in 25 kg nett weight, non-returnable polyethylene kegs.

Shelf Life

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

Handling

Avoid skin and eye contact.

Use in well-ventilated areas with appropriate PPE.

Consult SDS for complete safety and handling information.

Guidelines for Use

Formulation Use Level: 8–12 PHR, adjusted based on desired gloss level and epoxy excess

Gloss Range Targeting:

- 8–9 PHR for ~60% gloss
- 10–12 PHR for <30% gloss

Resin Systems: Designed for use in hybrid polyester-epoxy powder coatings (60:40 or 70:30 systems)

Pigment Loading: Compatible with high TiO₂ content systems (>10%)

Processing: Incorporate during the premix stage before extrusion

Cure Conditions: Ensure full film cure at $\geq 180^{\circ}\text{C}$ for 12–15 minutes metal temperature

Inventory Status

TBC

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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