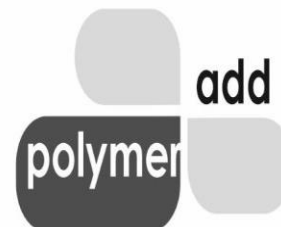


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TECHNICAL DATA SHEET

FURNICOAT MICROBLEND F55

Micronized Additive Blend for Powder Coating – Furniture Applications

Product Description

FurniCoat MicroBlend F55 is a micronized multifunctional additive blend optimized for powder coating applications in indoor and outdoor furniture. It improves surface slip, scratch resistance, and pigment orientation while aiding in smooth film formation and preventing defects like orange peel or metal marking.

Key Features and Benefits

- Improves surface smoothness and anti-mar performance
- Enhances powder flow and electrostatic spraying behavior
- Provides uniform finish in semi-gloss and matte coatings
- Reduces defects like blocking, orange peel, and mottling
- Suitable for polyester, epoxy, and hybrid powder systems

Typical Composition

Component	Function	% w/w	CAS Number
Micronized PE Wax	Surface slip and anti-blocking agent	35%	9002-88-4
Synthetic Amide Wax	Scratch resistance and film smoothness	15%	68953-58-2
Calcium Stearate (micronized)	Powder flow improver and mild internal lubricant	10%	1592-23-0
Fumed Silica (R972 type)	Anti-caking and improved feeding during spraying	2%	112945-52-5
Antioxidant 1010	Thermal stabilizer during powder curing	3%	6683-19-8
Acrylic Processing Aid (micronized)	Enhances melt flow, gloss control, and pigment leveling	15%	9011-87-4
Moisture Buffer (optional)	Prevents agglomeration and improves storage life	10%	471-34-1 112926-00-8
Polyether-Modified Silicone Additive	Slip additive to reduce fingerprint and scuff marks	10%	27306-78-1
TOTAL		100%	

Typical Physical Properties

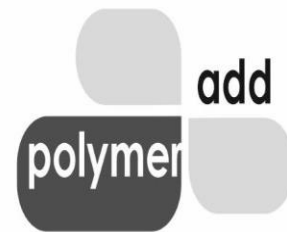
Property	Value
Appearance	White to off-white free-flowing powder
Bulk Density	0.30 – 0.40 g/cm ³
Particle Size (D100)	< 20 µm
Particle Size (D50)	6 – 10 µm
Melting Point Range	95 – 125 °C (blend basis)
Moisture Content	< 0.5%
Odor	Neutral to faint waxy

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Recommended Applications

- Powder coatings for metal tables, chair frames, cabinets, lockers
- Office furniture and institutional seating
- Interior or semi-exterior use under sheltered conditions

Recommended Dosage

- **0.8 – 2.0 phr** depending on formulation and coating system
- Suitable for matte, semi-gloss, and textured powder finishes

Packaging and Storage

Item	Details
Packaging	20 kg paper bag with PE liner or HDPE drum
Shelf Life	12 months in sealed, dry packaging
Storage Conditions	Store in cool, dry place; avoid exposure to humidity and sunlight

Regulatory Compliance

- All ingredients are compliant with industrial powder coating use
- Not intended for direct food contact or potable water surfaces

This preblend is offered as a dry additive system designed for technical use in polymer processing. The user is responsible for determining the appropriate dosage, processing parameters, and compatibility with their specific polymer and equipment. Polymer Add Thailand shall not be liable for any consequential or incidental damages arising from incorrect use or unverified end-application performance

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