

# Polymer Add (Thailand) Co.,Ltd.

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## TECHNICAL DATA SHEET

### APPLICOAT MICROBLEND H75

*Micronized Additive Blend for Powder Coating – Appliances*

#### Product Description

AppliCoat MicroBlend H75 is a high-performance micronized additive blend tailored for powder coating systems used in the appliance industry. It imparts excellent surface smoothness, anti-mar properties, and enhanced flow characteristics for glossy or semi-gloss finishes on white goods and kitchen appliances.

#### Key Features and Benefits

- Improves surface feel and mar resistance
- Enhances powder flow and electrostatic behavior
- Reduces orange peel and supports high-gloss uniformity
- Prevents blocking and sticking during stacking or packaging
- Suitable for hybrid polyester-epoxy and TGIC-free systems

#### Typical Composition

Component	Function	% w/w	CAS Number
Micronized PE Wax	Surface smoothness, gloss, anti-blocking agent	45%	9002-88-4
Silica-Coated PE Wax	Improves powder flow, reduces caking during storage	20%	9002-88-4 112945-52-5
Synthetic Amide Wax	Scratch resistance and slip enhancement	10%	68953-58-2
Antioxidant 1010	Thermal stability during extrusion and curing	3%	6683-19-8
Fumed Silica (R972 type)	Flow aid and anti-caking agent	2%	112945-52-5
Slip Additive (Silicone Resin Type)	Reduces metal marking and improves fingerprint resistance	5%	63148-62-9
Moisture Buffer (optional)	Controls humidity; prevents clumping during storage	15%	471-34-1 112926-00-8
TOTAL		100%	

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## Typical Physical Properties

Property	Value
Appearance	White to light beige free-flowing powder
Bulk Density	0.30 – 0.42 g/cm <sup>3</sup>
Particle Size (D100)	< 20 µm
Particle Size (D50)	6 – 9 µm
Melting Point Range	95 – 120 °C (blend basis)
Moisture Content	< 0.5%
Odor	Waxy to neutral

## Recommended Applications

- White goods (washing machines, refrigerators, dishwashers)
- Kitchen appliances and metal cabinets
- Powder coatings requiring high surface clarity and scuff resistance

## Recommended Dosage

- **0.8 – 2.0 phr** based on powder coating resin weight
- Compatible with polyester, epoxy, and hybrid powder systems

## Packaging and Storage

Item	Details
Packaging	20 kg paper bag with PE liner or HDPE drum
Shelf Life	12 months if stored properly
Storage Conditions	Cool, dry area; avoid high humidity and direct sunlight

## Regulatory Compliance

- All components are compliant with general powder coating industry standards
- Not intended for direct food contact surfaces without specific certification

***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***