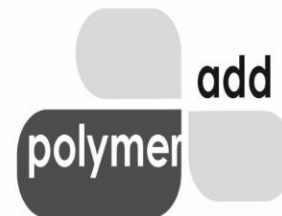


Polymer Add (Thailand) Co.,Ltd.

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TECHNICAL DATA SHEET

SB-COAT01

Micronized Additive Blend for Coatings & Paints – Anti-Corrosive and Flow-Control Modifier

Product Description

SB-COAT01 is a multifunctional micronized additive blend for coatings, primers, and paint systems applied on metal substrates. It combines a vapor-phase corrosion inhibitor with high-opacity mineral filler and surface-active wax to improve substrate protection, film durability, gloss balance, and scratch resistance. Designed for solvent- and water-based systems.

Composition

Chemical Name	CAS Number	Function	Typical % (w/w)
Sodium Benzoate (SB)	532-32-1	Anti-corrosive agent for Zn, Fe, Al substrates	40.0%
Barium Sulfate (BaSO_4)	7727-43-7	White pigment extender; gloss and strength enhancer	50.0%
Micronized Polyethylene Wax	9002-88-4	Surface modifier; slip, abrasion resistance, matting	10.0%

Physical Properties

Property	Value / Description
Appearance	Fine white powder
Odor	Odorless
Particle Size (D100)	< 20 μm (micronized)
Bulk Density	~0.60–0.80 g/cm^3
Flow Characteristics	Free-flowing; wax requires good premix
Moisture Content	< 0.5% (as packed)

Thermal Characteristics

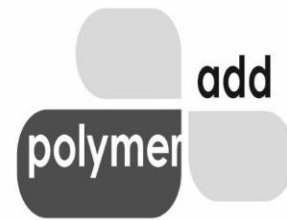
Component	Melting / Decomposition Temperature ($^{\circ}\text{C}$)
Sodium Benzoate	~410 $^{\circ}\text{C}$
Barium Sulfate (BaSO_4)	>1580 $^{\circ}\text{C}$ (stable mineral)
Micronized PE Wax	~105–120 $^{\circ}\text{C}$ (softening point)

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Storage and Handling

- Store in sealed packaging under dry conditions.
- Pre-drying is recommended for Sodium Benzoate in humid environments.
- Polyethylene wax component may float in low-viscosity dispersions; use **high-shear premixing** for uniform distribution.
- Blend thoroughly before use to avoid segregation.
- Wear appropriate PPE: dust mask, gloves, safety glasses.
- Shelf-life: 12 months if stored in dry, cool conditions (<30 °C).

Packaging Options

Packaging Type	Standard Size	Remarks
Multi-layer PE Bags	10 Kg / 15 Kg	With inner moisture-resistant liner
HDPE Drums	25 Kg	For long-term or export shipment
Fiberboard Boxes	On Request	Sealed with PE inner bag
Custom Packaging	Available on request	MOQ and delivery lead times apply

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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