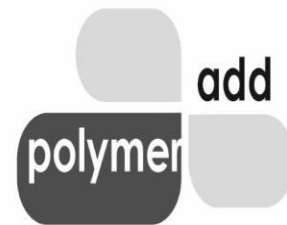


Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalarempriakiat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



TECHNICAL DATA SHEET

PIPEGUARD MICROBLEND P65

Micronized Additive Blend for Powder Coating – Pipes and Fittings

Product Description

PipeGuard MicroBlend P65 is a high-performance micronized additive blend formulated for powder coatings applied to **metal pipes, couplings, and fittings**. It provides excellent surface slip, flow, and thermal protection for both internal and external coatings exposed to water, chemicals, or harsh environments.

Key Features and Benefits

- Enhances flow and coverage in narrow/complex geometries (internal pipe coating)
- Improves scratch, abrasion, and chip resistance for external surfaces
- Prevents blocking, sticking, and scuffing during pipe transport and assembly
- Minimizes surface defects in high-thickness or fluidized bed applications
- Compatible with epoxy, epoxy-polyester, and FBE powder systems

Typical Composition

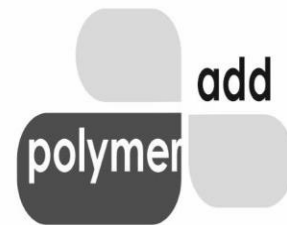
Component	Function	% w/w	CAS Number
Micronized PE Wax	Slip agent, anti-blocking, improves impact resistance	40%	9002-88-4
Synthetic Amide Wax	Surface protection and anti-scratch	15%	68953-58-2
Calcium Stearate (micronized)	Enhances powder flow and film leveling	10%	1592-23-0
Antioxidant 1010	Thermal stabilizer; prevents yellowing during cure	3%	6683-19-8
Fumed Silica (R972 type)	Anti-caking, improves powder feeding and storage stability	2%	112945-52-5
Acrylic Processing Aid	Improves film uniformity, fusion, and gloss control	10%	9011-87-4
Polyether-Modified Silicone	Adds slip and reduces friction on coated pipe surfaces	10%	27306-78-1
Moisture Buffer (optional)	Prevents agglomeration during storage	10%	471-34-1 112926-00-8
TOTAL		100%	

Polymer Add (Thailand) Co.,Ltd.

Office - 106, Chalaremprikat, Lor 9, Soi 22, Yak 5, Nongbon, Prawet, Bangkok, Thailand 10250

Factory - 188/3, Moo 8, Tambon Bangpu Mai, Amphoe Muang Samut Prakan, Samutprakan, Thailand 10280

Mobile - Thai : 0804531391, English: 0839415475, E-mail – contact@polymeradd.co.th



Typical Physical Properties

Property	Value
Appearance	White to off-white free-flowing powder
Bulk Density	0.30 – 0.42 g/cm ³
Particle Size (D100)	< 20 µm
Particle Size (D50)	6 – 9 µm
Melting Point Range	100 – 130 °C (blend basis)
Moisture Content	< 0.5%
Odor	Faint waxy or neutral

Recommended Applications

- External coatings for water, oil, and gas pipelines
- Internal powder coatings (FBE) for potable and industrial water pipes
- Pipe fittings, flanges, couplings, and joint assemblies
- Powder coatings applied by electrostatic, fluidized bed, or spray fusion

Recommended Dosage

- **0.8 – 2.0 phr** based on formulation and pipe diameter/coating thickness
- Suitable for epoxy, hybrid, and thermoset powder systems

Packaging and Storage

Item	Details
Packaging	20 kg kraft paper bag with PE liner or HDPE drum
Shelf Life	12 months in original sealed packaging
Storage Conditions	Cool, dry storage away from direct sunlight and moisture

Regulatory Compliance

- Compliant with general industrial powder coating standards
- For internal coatings in potable water lines, ensure final system approval by NSF or equivalent if applicable

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