

SPECIALTY WAX ADDITIVES AND FINE POWDERS



MICRO POWDERS, INC.



SMALL PARTICLES BIG IDEAS™

Micro Powders offers the most comprehensive portfolio of specialty wax powders, dispersions, and emulsions available in the industry.

We develop multi-functional additives that help formulators solve problems and achieve unique surface effects in inks, paints, coatings, and many other industrial applications. Our products are proven to provide:

- Durability (slip, rub, abrasion, scratch resistance, and anti-block)
- Gloss reduction and burnish resistance
- Water repellency
- Texture effects
- Tactile and soft touch effects

FINE POWDERS

We are the leaders in creating innovative particle technologies that deliver maximum performance and efficiency. Our novel composite and nanocomposite grades can deliver superior results at use levels of 1% or less.

Because of our commitment to sustainability, we offer a growing selection of products based on natural and biodegradable materials, including a range of PTFE alternative ingredients, giving today's formulators even more options to develop next-generation products.

Request our PTFE Alternatives brochure for a focused product list and performance data.

Choosing the best specialty additives doesn't have to be intimidating. We are always available to provide technical assistance either directly or through one of our certified distribution partners around the globe.

NATURAL AND NATURALLY DERIVED WAXES

Biobased, sustainable additives that provide excellent surface performance

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
NatureFine R331	Rice bran wax	77-82	0.96	6.0-10.0	31.0	Slip, abrasion
NatureFine H325	Hydrogenated castor oil	82-87	0.99	8.0-12.0	31.0	Rub, dry flow
NatureMatte® 31	PHBV	170-180	1.25	7.5-10.5	31.0	Matting, burnish
NatureMatte® C44	Cellulose	>260	1.46	10.0-15.0	44.0	Matting, burnish
MicroKlear 418	Carnauba wax (T-1)	81-86	1.00	6.0-8.0	22.0	Slip, clarity, hydrophobic
MicroKlear 438	Carnauba wax (T-3)	81-86	1.00	6.0-8.0	22.0	Slip, clarity, hydrophobic




MODIFIED CARNAUBA WAXES

Hybrid waxes that combine the benefits of natural and synthetic materials

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
MicroKlear 116	Carnauba wax/HDPE	107-113	0.98	4.0-5.25	15.56	Slip, clarity, scratch
MicroKlear 116AL	Carnauba wax/HDPE/AL oxide	107-113	1.01	3.5-5.5	15.56	Scratch, slip
MicroKlear 295	Carnauba wax/HDPE	104-110	0.98	4.0-6.0	22.0	Slip, clarity, scratch
MicroKlear 418AL	Carnauba wax/AL oxide	81-86	1.04	6.0-8.0	22.0	Scratch, clarity, natural


AMIDE WAXES

Vegetable-derived EBS for slip, anti-block, and scratch resistance

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
Micromide 520 	EBS	141-145	0.97	5.0-8.0	22.0	Anti-block, degassing, slip 
Micromide 520XF 	EBS	141-145	0.97	3.0-5.0	15.56	Gloss, anti-block, slip




AMIDE MODIFIED WAXES

Hybrid waxes for anti-block and lubricity with silky haptics

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
Polysilk® 14	HDPE/PTFE/amide	96-118	1.02	7.5-9.5	31.0	Rub, tape release, haptics
Polysilk® 750	HDPE/amide	96-109	0.94	5.0-7.0	22.0	Rub, anti-block, scratch
Superslip 6515	HDPE/EBS	139-145	0.96	6.0-8.0	22.0	Scratch, mar, slip
Superslip 6515AL	HDPE/EBS/AL oxide	139-145	0.99	3.5-5.5	15.56	Scratch, slip, anti-block 
NEW Superslip 6515AL-EZ	Surface treated HDPE/EBS/Aluminum oxide	139-145	0.99	3.5-5.5	15.56	Scratch, slip, anti-block, easy to disperse
Superslip 6530	HDPE/EBS	124-135	0.97	6.0-7.5	22.0	Scratch, abrasion, slip
Synslip 3750	Synthetic wax/EBS	135-143	0.94	5.0-7.0	22.0	Rub, slip
SuperGlide 904	Synthetic wax/EBS	138-145	0.96	4.0-6.0	22.0	Anti-block, haptics

POLYPROPYLENE WAXES



Efficient gloss reduction and burnish resistance with minimal impact on rheology

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
PropylMatte 31	Polypropylene	160-170	0.89	8.0-12.0	31.0	Matting (solvent) 
PropylMatte 31HD	Densified polypropylene	160-170	1.07	8.0-12.0	31.0	Matting (water) 
PropylMatte 31SA	Polypropylene/PTFE	160-170	1.02	8.0-12.0	31.0	Matting, slip, abrasion 
PropylMatte 450	Polypropylene	142-148	0.90	8.0-12.0	31.0	Matting (solvent)
PropylMatte 500	Polypropylene	142-148	0.90	5.0-8.0	22.0	Matting, clarity





MODIFIED POLYPROPYLENE AND SYNTHETIC WAXES

Hybrid waxes for gloss reduction, anti-block, and metal marking resistance

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
Micropro 400	Modified polypropylene	140-143	0.94	4.5-7.5	22.0	Matting, mar, anti-block
Micropro 440W	Modified polypropylene	150-156	0.97	7.0-10.0	31.0	Matting (water), mar 
Micropro 500	Modified polypropylene	141-143	0.95	4.5-7.5	22.0	Matting (solvent), mar
Micropro 600	Modified polypropylene	146-149	0.95	6.0-9.0	22.0	Anti-block, mar, matting
MicroMatte® 1011UVW	Modified polypropylene	150-156	1.07	5.0-7.5	22.0	Matting (water/UV), burnish, DPUR
MicroMatte® 1213UVW	Modified polypropylene	150-156	1.07	5.0-7.5	22.0	Matting (water/UV), clarity 
NEW MicroMatte® 1415	Modified synthetic wax	136-140	1.06	10.0-15.0	44.0	Matting, burnish, DPUR, easy to disperse
MicroMatte® 2000	Modified polypropylene	146-149	0.96	6.0-9.0	22.0	Matting (UV)

SYNTHETIC WAX

Fischer-Tropsch waxes for slip with scratch and rub resistance

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
MP-22	Synthetic wax	110-115	0.93	7.0-10.0	31.0	Slip, mar, rub 
MP-22VF	Synthetic wax	110-115	0.93	6.0-8.0	22.0	Slip, mar, rub
MP-22XF	Synthetic wax	110-115	0.93	4.5-6.5	22.0	Slip, rub, gloss
MP-22XXF	Synthetic wax	110-115	0.93	3.75-5.75	15.56	Slip, rub, gloss
MP-22C	Synthetic wax	110-115	0.93	6.0-8.0	22.0	Slip, mar, rub (spherical)
MP-28C	Synthetic wax	114-118	0.95	4.5-6.5	22.0	Slip, mar, rub (spherical)
MP-28XF	Synthetic wax	114-118	0.95	4.5-6.5	22.0	Slip, rub, gloss
MP-28AL	Synthetic wax/AL oxide	104-110	0.99	4.5-6.5	22.0	Scratch, slip 








SYNTHETIC WAX/PTFE

Hybrid waxes for scratch resistance and lubricity

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
Synfluo 168VF	Synthetic wax/PTFE	104-110	0.95	8.0-10.0	31.0	Slip, mar
Synfluo 171VF	Synthetic wax/PTFE	104-110	0.96	4.0-7.0	22.0	Slip, mar
Synfluo 172VF	Synthetic wax/PTFE	104-110	0.97	4.0-7.0	22.0	Slip, mar
Synfluo 172XF	Synthetic wax/PTFE	104-110	0.97	3.5-6.25	20.15	Slip, mar, gloss
Synfluo 178VF	Synthetic wax/PTFE	104-110	0.98	4.0-7.0	22.0	Scratch, slip
Synfluo 178XF	Synthetic wax/PTFE	104-110	0.98	3.0-5.0	15.56	Scratch, slip, gloss
Synfluo 180XF	Synthetic wax/PTFE	104-110	1.02	3.0-5.0	11.0	Scratch, abrasion, gloss








POLYETHYLENE WAXES

Versatile powders for slip with abrasion and mar resistance

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
MPP-230F	HDPE	110-118	0.94	10.0-12.0	31.0	Mar, slip, rub 
MPP-230VF	HDPE	110-118	0.94	7.0-9.0	26.0	Mar, slip, gloss
MPP-611	HDPE	109-115	0.96	5.0-8.0	22.0	Scratch, anti-block 
MPP-611XF	HDPE	109-115	0.96	4.0-6.0	22.0	Scratch, anti-block, gloss
MPP-611AL	HDPE/AL oxide	109-115	0.99	3.5-5.5	15.56	Scratch, slip, gloss 
MPP-620VF	HDPE	114-116	0.96	5.0-7.0	22.0	Mar, scratch, slip 
MPP-620XF	HDPE	114-116	0.96	4.5-5.5	22.0	Mar, scratch, gloss
MPP-620XF	HDPE	114-116	0.96	4.25-4.75	12.0	Mar, scratch, gloss
MPP-635F	HDPE	123-125	0.97	8.0-10.0	31.0	Scratch, abrasion, anti-block 
MPP-635VF	HDPE	123-125	0.97	6.0-8.0	22.0	Scratch, abrasion, anti-block 
MPP-635XF	HDPE	123-125	0.97	4.0-6.0	22.0	Scratch, abrasion, gloss
MPP-1241	HDPE	123-126	0.97	20.0-25.0	110.0	Abrasion, dry flow
MPP-123	LDPE	110-113	0.93	9.5-12.5	31.0	Abrasion, non-slip, durability
MPP-123AL	LDPE/AL oxide	110-113	0.97	9.5-12.5	31.0	Scratch, abrasion, non-slip 








POLYETHYLENE/PTFE WAXES

Hybrid waxes for superior abrasion resistance and surface durability

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
Polyblend 100XF	HDPE/PTFE	110-116	0.99	5.0-6.0	22.0	Slip, mar, gloss
Polyblend 200	HDPE/PTFE	123-125	1.00	8.0-10.0	31.0	Slip, mar
Polyfluo® 120	HDPE/PTFE	114-120	0.98	6.0-10.0	31.0	Slip, mar, rub 
Polyfluo® 150	HDPE/PTFE	113-116	1.04	3.5-5.5	15.56	Slip, scratch, gloss 
Polyfluo® 150XF	HDPE/PTFE	113-116	1.04	3.0-5.0	11.0	Slip, scratch, max gloss
Polyfluo® 190	LDPE/PTFE	108-112	0.98	9.0-12.0	31.0	Abrasion, burnish, matting 
Polyfluo® 190S	LDPE/PTFE	108-112	0.98	6.5-8.5	31.0	Abrasion, burnish
Polyfluo® 200	HDPE/PTFE	124-126	1.02	9.0-11.0	31.0	Slip, abrasion, matting
Polyfluo® 400	HDPE/PTFE	108-115	1.21	5.0-6.0	22.0	Abrasion, slip 
Polyfluo® 400XF	HDPE/PTFE	108-115	1.21	3.0-5.0	11.0	Abrasion, slip, max gloss
Polyfluo® 523XF	HDPE/PTFE	113-117	1.10	3.5-5.5	15.56	Abrasion, slip, gloss 
Polyfluo® 523AL	HDPE/PTFE/ AL oxide	113-117	1.09	3.5-5.5	15.56	Scratch, abrasion, slip 
Polyfluo® 535	HDPE/PTFE	108-115	1.04	5.0-6.0	22.0	Rub, slip
Polyfluo® 540	HDPE/PTFE	108-115	1.05	5.0-6.0	22.0	Abrasion, slip
Polyfluo® 540XF	HDPE/PTFE	108-115	1.05	3.0-5.0	11.0	Abrasion, slip, max gloss
Polyfluo® 900	HDPE/PTFE	121-132	1.02	9.0-12.0	31.00	Abrasion, burnish, non-slip 









OXIDIZED WAXES

Easily dispersible waxes for scratch, mar, and abrasion resistance in water based systems

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
AquaMatte 26HD	Densified oxidized HDPE	105-111	1.08	6.0-8.5	26.0	Matting, burnish, stability
Aquawax 214	Oxidized synthetic wax	98-102	0.96	9.0-11.0	31.0	Rub, mar, slip 
Aquawax 214VF	Oxidized synthetic wax	98-102	0.96	5.0-7.5	22.0	Rub, mar, gloss 
AquaPoly 215	Oxidized HDPE	105-111	0.94	9.0-11.0	31.0	Rub, scratch 
AquaPoly 250	Modified oxidized HDPE	117-123	0.97	8.0-10.0	31.0	Rub, scratch, slip 
AquaPolyfluo 411	Modified oxidized HDPE/PTFE	117-123	1.02	6.0-8.0	22.0	Rub, abrasion, slip 
AquaPolysilk 19	Modified oxidized HDPE/PTFE	102-118	1.02	9.0-11.0	31.0	Rub, abrasion, anti-block 
AquaSuperslip 6550	Modified oxidized HDPE/amide	124-135	0.97	6.0-7.5	22.0	Abrasion, slip, anti-block 
AquaTex® 325	Oxidized HDPE	135-140	0.99	10.0-15.0	44 (325 mesh)	Matting, texture




ALUMINUM OXIDE NANOCOMPOSITES

Advanced composite waxes for maximum scratch resistance

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
MicroKlear 116AL	Polyethylene/carnauba wax/ aluminum oxide	107-113	1.01	3.5-5.5	15.56	Scratch, slip
MicroKlear 418AL 	Carnauba wax/aluminum oxide	81-86	1.04	6.0-8.0	22.0	Scratch, clarity, natural 
MP-28AL	Synthetic wax/aluminum oxide	104-110	0.99	4.5-6.5	22.0	Scratch, slip 
MPP-123AL	LDPE/aluminum oxide	110-113	0.97	9.5-12.5	31.0	Scratch, abrasion, non-slip 
MPP-611AL	HDPE/aluminum oxide	109-115	0.99	3.5-5.5	15.56	Scratch, slip, gloss 
Polyfluo® 523AL	HDPE/PTFE/aluminum oxide	113-117	1.09	3.5-5.5	15.56	Scratch, abrasion, slip 
Superslip 6515AL	HDPE/EBS/aluminum oxide	139-145	0.99	3.5-5.5	15.56	Scratch, slip, anti-block 
Superslip 6515AL-EZ 	Surface treated HDPE/EBS/Aluminum oxide	139-145	0.99	3.5-5.5	15.56	Scratch, slip, anti-block, easy to disperse

CERAMIC NANOCOMPOSITES

Advanced composite waxes for maximum abrasion resistance

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
PolyGlide 1226XF	HDPE/ceramic	109-115	0.99	3.5-5.5	15.56	Abrasion, slip, gloss 
PolyTuf® 1229	LDPE/ceramic	110-113	0.97	9.0-12.0	31.0	Abrasion, burnish 
Polyfluo® 900	LDPE/PTFE/ceramic	121-132	1.02	9.0-12.0	31.0	Abrasion, burnish, non-slip 


GRAPHENE NANOCOMPOSITES

Advanced composite powders for anti-corrosion and mechanical durability

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
GraphShield 730	Graphene/synthetic wax	108-113	1.24	8.0-12.0	31.0	Anti-corrosion (powder coatings)
GraphShield 777	Graphene/styrene acrylic resin	NA	1.27	14.0-18.0	74.0	Anti-corrosion (liquid coatings)

ULTRA HYDROPHOBIC WAXES


Complex hybrid waxes for water repellency and weather resistance

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
AquaBead® 519	Hydrophobically modified synthetic wax	126-132	0.94	6.0-8.0	22.0	Water beading, water repellency 
AquaBead® 916	Hydrophobically modified synthetic wax	128-132	0.95	7.0-9.0	22.0	Water beading, water repellency

POLYURETHANE MICROSPHERES



Spherical additives for unique surface haptics

Want to feel these products? Request our printed MicroTouch Coatings Brochure.

PRODUCTS	Wax Type	Density g/cm ³	Particle Size (µm)		Benefits
			Mean	Maximum	
MicroTouch 800F	Aliphatic polyurethane	1.05	22.0-30.0	120.0	Haptics (coarse)
MicroTouch 800VF	Aliphatic polyurethane	1.05	11.0-15.0	60.0	Haptics (moderate)
MicroTouch 800XF	Aliphatic polyurethane	1.05	6.0-9.0	31.0	Haptics (smooth), matting
MicroTouch 800XXF	Aliphatic polyurethane	1.05	3.0-5.0	15.0	Haptics (smooth), matting
MicroTouch 850XF	Modified aliphatic polyurethane	1.02	5.0-9.0	31.0	Haptics (smooth), slip
MicroTouch 875XF 	Modified aliphatic polyurethane	1.03	3.0-9.0	31.0	Haptics, max-slip, biobased

PTFE

Durable, heat resistant powders for superior slip with abrasion resistance

PRODUCTS	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
			Mean	Maximum	
Fluo 300	>316	2.2	5.0-6.0	22.0	Abrasion, slip, heat resistance
Fluo 300XF	>316	2.2	2.0-4.0	15.56	Abrasion, slip, gloss 
Fluo 300SM	>316	2.2	2.0-4.0 (<0.3 primary)	22.0	Abrasion, slip, max-gloss 
Fluo 500	>316	2.2	3.0-5.0	22.0	Abrasion, slip, heat resistance

COARSE POWDERS & TEXTURE ADDITIVES






POLYPROPYLENE WAXES

Powders for texturing, gloss reduction, and slip resistance

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
PropylTex® 20	Polypropylene	166-168	0.90	-	841.0 (20 mesh)	Coarse texture, non-slip
PropylTex® 30	Polypropylene	166-168	0.90	-	595.0 (30 mesh)	Coarse texture, non-slip
PropylTex® 50	Polypropylene	166-168	0.90	-	297.0 (50 mesh)	Coarse texture, non-slip
PropylTex® 100S	Polypropylene	160-170	0.89	80.0-100.0	149.0 (100 mesh)	Moderate texture, non-slip
PropylTex® 140S	Polypropylene	160-170	0.89	45.0-50.0	105.0 (140 mesh)	Moderate texture, non-slip
PropylTex® 200S	Polypropylene	160-170	0.89	35.0-45.0	74.0 (200 mesh)	Moderate texture
PropylTex® 200SF	Polypropylene	160-170	0.89	25.0-35.0	74.0 (200 mesh)	Moderate texture
PropylTex® 230S	Polypropylene	160-170	0.89	36.0-39.0	63.0 (230 mesh)	Fine texture, non-slip
PropylTex® 270S	Polypropylene	160-170	0.89	18.5-23.0	53.0 (270 mesh)	Matting (solvent), haptics
PropylTex® 325S	Polypropylene	160-170	0.89	10.0-15.0	44.0 (325 mesh)	Matting (solvent), haptics
PropylTex® 200HD	Densified polypropylene	160-170	1.07	40.0-45.0	74.0 (200 mesh)	Texture (water), stability
PropylTex® 230HD	Densified polypropylene	160-170	1.07	36.0-39.0	63.0 (230 mesh)	Fine texture (water) stability
PropylTex® 270HD	Densified polypropylene	160-170	1.07	15.0-18.0	53.0 (270 mesh)	Matting (water), stability, burnish
PropylTex® 325HD	Densified polypropylene	160-170	1.07	10.5-13.0	44.0 (325 mesh)	Matting (water), stability, burnish

CELLULOSIC POWDERS

Naturally derived powders for gloss reduction and texturing

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
NatureTex® 140 	Cellulose acetate	>230	1.30	45.0-55.0	105.0 (140 mesh)	Moderate texture (water), natural
NatureTex® 200 	Cellulose acetate	>230	1.30	35.0-45.0	74.0 (200 mesh)	Texture (water), stability, natural
NatureTex® 270 	Cellulose acetate	>230	1.30	18.5-23.0	53.0 (270 mesh)	Matting (water), stability, natural
NatureTex® 325 	Cellulose acetate	>230	1.30	10.0-15.0	44.0 (325 mesh)	Matting (water), stability, natural
NatureMatte® C44 	Cellulose	>260	1.46	10.0-15.0	44.0 (325 mesh)	Maximum matting, clarity, burnish

NYLON POWDERS

High melting point texture additives for durability, slip resistance, and heat resistance.

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
NyloTex 50	Polyamide 66	257-267	1.14	160.0-180.0	297.0 (50 mesh)	Coarse texture
NyloTex 100	Polyamide 66	257-267	1.14	80.0-100.0	149.0 (100 mesh)	Moderate-to-coarse texture
NyloTex 140	Polyamide 66	257-267	1.14	45.0-65.0	105.0 (140 mesh)	Moderate texture
NyloTex 200	Polyamide 66	257-267	1.14	30.0-50.0	74.0 (200 mesh)	Fine texture, heat resistance

Want to feel these products? Request our printed Additives for Texture Brochure.

PIGMENTED POLYETHYLENE POWDERS

Powders for visual effects in coatings

PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Color/ Appearance	Particle Size (µm)		Benefits
					Mean	Maximum	
MicroGranite 100	Multicolored HDPE	115-120	0.99	Granite	85.0-115.0	149.0 (100 mesh)	Visual effects
MicroBlack 1005	Black HDPE	121-127	1.00	Black	95.0-115.0	149.0 (100 mesh)	Visual effects
MicroWhite 1005	White HDPE	121-127	1.00	White	95.0-115.0	149.0 (100 mesh)	Visual effects

POWDER COATING TEXTURE ADDITIVES

Mild to coarse surface texture effects




PRODUCTS	Wax Type	Melting Point °C	Density g/cm ³	Particle Size (µm)		Benefits
				Mean	Maximum	
NEW MicroTex 580	Biopolymer	NA	1.45	-	100.0	PFAS-free, strong texture
Fluo 750TX	PTFE	>325	2.20	20.0-30.0	145.0	Strong texture
MicroTex 121	PTFE/HDPE	110-118	1.02	<100	-	Moderate texture
Synflu 283TX	PTFE/synthetic wax	104-110	1.01	8.5-10.5	31.0	Light texture




WATER BASED PRODUCTS



WAX EMULSIONS

Water based waxes for water resistance, water beading, and slip

PRODUCTS	Wax Type	Emulsifier Type	Melting Point °C	Solids	Viscosity at 25 °C	pH	Benefits
AquaBead® 270E	Paraffin/polyethylene	Anionic	60	40.0%	500-1,300	9.0-11.0	Water beading, gloss
AquaBead® 325E	Paraffin	Anionic	54	63.0%	1,000-2,000	8.0-10.0	Water beading, gloss
AquaBead® 425E 	Carnauba wax	Anionic	85	25.0%	<200	10.0-11.0	Water beading, slip, natural
AquaBead® 525E	Paraffin/carnauba wax	Anionic	60	30.0%	100-800	10.0-11.0	Water beading, cleanability
AquaBead® R331E 	Rice bran wax	Nonionic	80	50.0%	500-2,000	8.0-10.5	Max-water beading, natural
AquaKlean 403	Polyethylene/paraffin	Anionic	120	30.0%	<200	9.0-10.0	Cleanability, mar, slip
AquaKlean 418 	Carnauba wax	Anionic	85	35.0%	<50	4.0-8.0	Water beading, slip, natural
Microspersion® 504E	Polyethylene/paraffin	Nonionic	100	40.0%	<500	7.5-9.5	Slip, rub
NEW Microspersion® 510E	Polyethylene	Nonionic	140	35.0%	<200	8.0-10.0	Slip, abrasion, food contact
Microspersion® 530E	Polyethylene	Anionic	125	35.0%	<100	9.0-10.5	Slip, rub, mar

WAX DISPERSIONS

A selection of pourable water based waxes for ease of addition. Additional dispersions marked with  on dry waxes.

PRODUCTS	Dry Wax ID	Wax Solids	Viscosity at 25 °C	Mean Size (µm)	pH	Benefits
Microspersion® 1226XF-50	PolyGlide 1226XF	50.0%	2,000-9,000	3.5-5.5	6.0-8.0	Abrasion, slip, gloss
NEW Microspersion® 1229-40	PolyTuf® 1229	40.0%	2,500-6,000	9.0-12.0	9.5-10.5	Abrasion, burnish
Microspersion® 22-50	MP-22	50.0%	2,500-4,500	7.0-10.0	9.0-10.5	Slip, mar, rub
NEW Microspersion® 28AL-50	MP-28AL	50.0%	2,500-6,000	4.5-6.5	9.5-10.5	Scratch, slip
Microspersion® 214-50	Aquawax 214	50.0%	2,000-3,000	9.0-11.0	7.0-8.0	Rub, mar, slip
Microspersion® 215-50	AquaPoly 215	50.0%	1,500-4,000	9.0-11.0	7.5-9.0	Rub, scratch
Microspersion® 31HD-40	PropylMatte 31HD	40.0%	5,000-9,000	8.0-12.0	8.0-9.0	Matting, burnish
Microspersion® 520 	Micromide 520	34.0%	50-250	5.0-8.0	9.0-11.0	Gloss, anti-block, slip
Microspersion® 620VF-50	MPP-620VF	50.0%	3,000-5,000	5.0-7.0	7.5-8.5	Mar, scratch, slip
Microspersion® R331-50 	NatureFine R331	50.0%	1,000-7,000	6.0-10.0	8.5-11.0	Slip, abrasion

WETTING AGENT


A synergistic blend of surfactants ideal for making water based wax dispersions

PRODUCTS	Appearance	Viscosity at 25 °C	pH	Density at 25°C (g/cc)
Microspersion® EZ-2	Clear liquid	<500 cP	4.5-6.5	0.99

BEST PRACTICES FOR USING MICRONIZED WAX

Micro Powders' products can elevate your coating formulations from good to great when used correctly. It is important to understand the proper techniques to use when incorporating micronized powders into a coating. In order to successfully "wet" the wax particles, the liquid used requires a lower surface tension than the surface energy of the wax. The term "wet" or "wetting" refers to completely dispersing individual micro-fine particles into a liquid medium.

It is generally recommended to avoid adding micronized wax directly into the final liquid formulation, as this typically will lead to poor wetting, insufficient dispersion, agglomerated wax particles, coating defects, and poor end use performance. It is usually difficult to wet out a small percentage of dry wax in a large batch of liquid material. Ideally, a concentrated dispersion is first prepared using the wax powder and one or more components of the coating formulation. Then the appropriate amount of this pre-dispersion is added to the final coating. If there is a grind step in the manufacturing process, the dry wax can be incorporated at that stage. In solvent based formulations, it is important to monitor the grind temperature so it does not exceed the melting point of the wax.

For customers who would rather not handle dry powders, many of our products are available as pourable, aqueous **Micropersions**® which can be easily added at any stage of manufacturing. A selection of products are shown on page 10, and referenced throughout the brochure with .

For more information, please refer to our **How to Disperse Micronized Waxes** guide, which provides detailed information on dispersing micronized wax powders into a variety of systems, including: solvent based, water based, energy curable, and 100% solids and reactive systems.

See the full guide:
**How to Disperse
Micronized Waxes**



GLOBAL REGULATIONS

Micro Powders' products have broad regulatory approval for use in many end applications, including food packaging. A Regulatory Summary Sheet (RSS) is available by request for all products. This document features extensive global compliance information, including:

- National Chemical Inventory Conformance
- USA FDA Regulations
 - 21CFR (packaging)
 - 40CFR (agrochemicals)
- EU Regulation No. 10/2011
- Swiss Ordinance 817.023.21
- China GB9685-2016
- REACH conformance





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