



LANCO™

POWDERADD™

SOLPLUS®

LANCO™ FLOW

LANCO™ STAT

## PRODUCT SELECTION GUIDE



## High-Performance Additives for the Powder Coatings Industry



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### INDUSTRY KNOWLEDGE

Lubrizol employs experienced powder coating specialists. A constant dialogue with customers, membership in powder coating associations and continuous learning enables us to understand the needs of the powder industry and successfully work on today's and future powder coatings needs.

### TECHNICAL SUPPORT

Our powder coating lab is fully equipped to produce and apply small quantities of powder. Our team is dedicated to helping customers, responding to technical questions and delivering solutions.



For high-performance powder coating additives.

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### QUALITY PRODUCTS

Lubrizol's ISO-certified facility is committed to following the standards of Responsible Care® and Coatings Care® to protect the environment. From product development to production and distribution, we carefully control all processes to ensure the quality of our products and help our customers gain a competitive edge.

### BEST SOLUTION

Lubrizol specializes in providing just the right product in just the right amount, helping to turn an ordinary coating into an extraordinary coating.

### ON-TIME DELIVERY

Product availability and on-time delivery are vital to any business. Lubrizol utilizes a worldwide network of distribution points. This comprehensive network provides immediate access to customer service personnel.

# Powder Coating Product Data Summary

## Lanco™ Micronized Wax Surface Modifiers

Product	Wax-Type	Max. Particle Size		Melting Point		Density g/cm <sup>3</sup> @ 20°C
		Dv 50	Dv 90	°C	°F	
Lanco PP 1362 D	Modified PP	9	22	140	284	0.94
Lanco PP 1350 F	PP-Modified PE	9	22	150	302	0.94
Lanco 1410 LF	Modified Synthetic	9	19	140	284	0.97
Lanco 1550	PE Blend	Max. 500 µm		117	243	0.95
Lanco TF 1725 LF	PTFE-Modified PE	9	18	125	257	1.01
Lanco TF 1778	PTFE-Modified PE	6	14	102	216	0.98
Lanco TF 1830 N	PTFE-Modified PE	9	22	102	216	1.04
Lanco 1890	PTFE	35	----	320	608	2.20
Lanco 1900 MF	Polymer Blend	15	30	60	140	1.12
Lanco 1910 MF	Polymer Blend	15	30	63	145	1.01

## PowderAdd™ Products: Surface Modifiers Designed for Powder Coatings

Product	Wax-Type	Max. Particle Size		Melting Point		Density g/cm <sup>3</sup> @ 20°C
		Dv 50	Dv 90	°C	°F	
PowderAdd 9015	PE	Coarse powder		111	232	0.93
PowderAdd 9025	Polyolefin	15	35	105	221	0.96
PowderAdd 9027	Polyolefin	470	----	105	221	0.95
PowderAdd 9060	Amide	9	22	142	288	0.98
PowderAdd 9078	PTFE-Modified PE	300	----	115	239	0.98
PowderAdd 9083	PTFE-Modified PE	100	----	110	230	1.02
PowderAdd 9085	Modified PTFE	30	100	n/a	n/a	1.60
PowderAdd 9087	PTFE-Modified PE	20	50	125	257	1.76
PowderAdd 9089	PTFE Blend	70	170	141	284	2.70
PowderAdd 9094	PP	13	25	140	284	0.94

## Lanco Flow Modifiers

Product	Type	Density g/cm <sup>3</sup>	Activity Level (%)	Non-Volatile Content
Lanco Flow P 10	Acrylic/Silica	1.49	66	> 98
Lanco Flow P 30	Castor Oil Derivative	0.90	100	n.a.

## SOLPLUS® Hyperdispersants

Product	Type	Density g/cm <sup>3</sup>	Melting/Pour Point	Non-Volatile Content	Pigment
SOLPLUS L300	Polymeric Dispersant	0.64	50-55° C	100%	Organic and organic/inorganic mixtures (especially carbon black)
SOLPLUS L400	Polymeric Dispersant	1.13	48° C	100%	Inorganic (especially TiO <sub>2</sub> )

# Lubrizol Additives for Powder Coating Applications



## MATTING AGENTS

### PowderAdd™ 9027

Polyolefin wax that produces good matting and slip.

### Lanco™ 1550

Polymer blend providing matting and mar resistance.

### PowderAdd 9094

Pure polypropylene wax for reducing gloss without increasing slip.

## SCRATCH/ANTIMAR RESISTANCE

### Lanco TF 1778

The product of choice for high-performance applications. It provides a high degree of scratch resistance while significantly reducing the coefficient of friction.

### PowderAdd 9078

An economic PE/PTFE combination with a coarse particle size. It provides slip and mar resistance with little influence on haze in dark color shades. It maintains higher gloss than Lanco TF 1778.

### Lanco PP 1350 F

PP-modified polyethylene compound which gives good mar resistance and imparts additional hardness to the film.



## TEXTURING AGENTS

### Lanco TF 1830 N

PTFE-modified polyethylene wax, standard grade for uniform surface texturing.

### PowderAdd 9080

Structuring agent providing a coarse, "long-wave type" structure similar to CAB.

### PowderAdd 9083

PTFE-modified polyethylene wax that provides a fine uniform structure with high matting efficiency.

### PowderAdd 9085

Modified PTFE producing same fine uniform "dry texture" effect like PowderAdd 9087 being slightly more efficient and providing softer surface feel.

### PowderAdd 9087

PTFE-modified PE that develops a fine uniform, "dry texture" with a low gloss level.

### PowderAdd 9089

PTFE blend that provides a fine uniform structure with slightly higher efficiency and matting than PowderAdd 9083.

## DEGASSING AGENTS

### Lanco PP 1362 D

PP-modified polyethylene wax that gives excellent degassing properties.

### Lanco 1410 LF

Fine polymer blend that shows good surface properties and degassing while having only small impact on gloss.

## FLOW MODIFIERS

### Lanco™ Flow P 10

Acrylic flow promoter, 65 percent polymer absorbed on silica. It eliminates surface defects such as cratering and pinholing.

### Lanco Flow P 30

Hydrogenated castor oil wax that improves surface appearance and shows excellent flow and levelling properties. A co-additive to be used in conjunction with acrylic flow promoters.

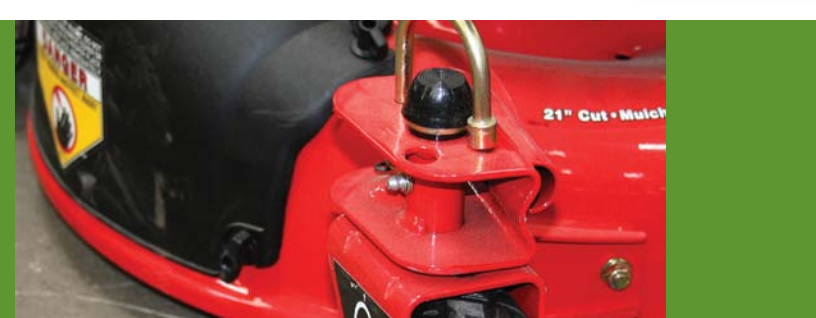
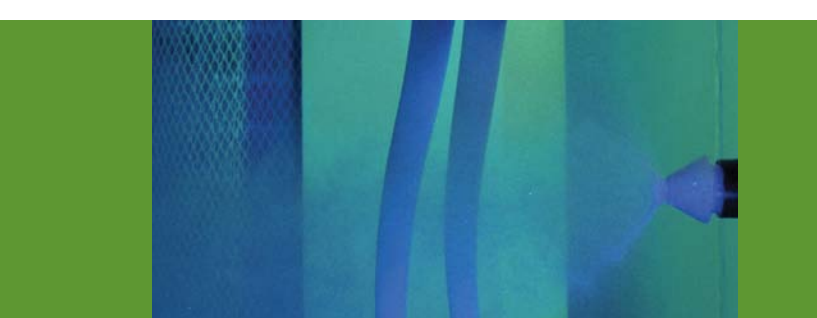
## SPECIALTY SURFACE MODIFIERS

### Lanco 1900 MF

Proprietary chemistry for use in applications where loss of gloss and haze cannot be tolerated, FDA-approved.

### Lanco 1910 MF

Proprietary chemistry for use in high-gloss and low-haze applications where FDA compliance is not required.



## ANTISTATIC AGENTS

### Lanco Stat 308

Lanco Stat 308 is recommended for use in all powder coatings systems including hybrids, polyesters, urethanes, epoxies and acrylics. Lanco Stat 308 alters the conductivity properties of powder coatings resulting in improved application characteristics and coating quality.

## GENERAL PURPOSE

### PowderAdd™ 9015

Coarse polyethylene wax for universal use that shows good surface properties.

## HYPERDISPERSANTS

### SOLPLUS® L300

Polymeric hyperdispersant recommended for use with organic pigments or organic/inorganic mixtures in powder coatings, improves flow/levelling and gloss and improves color development (especially jetness in black formulations).

### SOLPLUS L400

Polymeric hyperdispersant recommended for use with inorganic pigments – particularly titanium dioxide in powder coatings – improves flow/levelling and gloss, reduces processing time and enables the formulation of higher opacity coatings.

The product you need -  
where and when you need it!



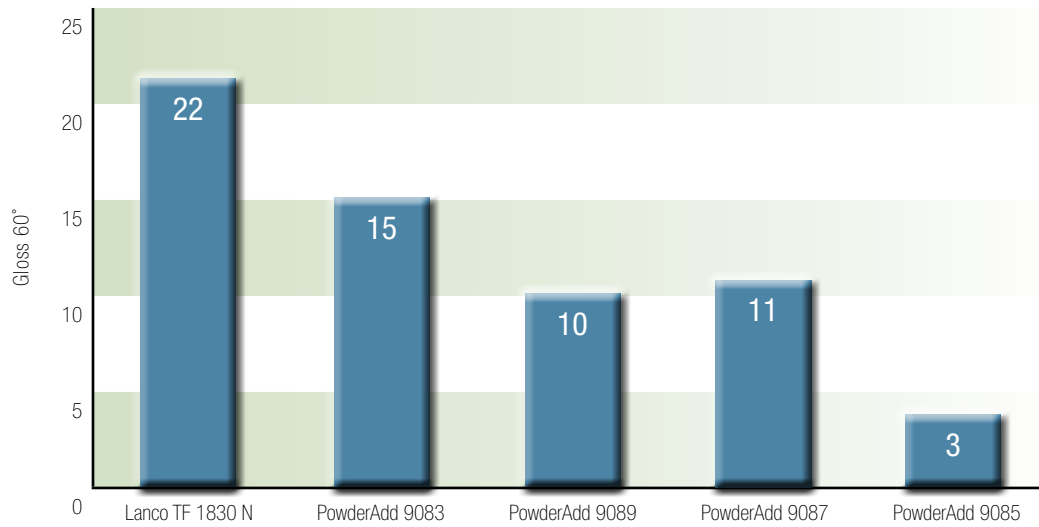
# Find the best Surface modifier for your Powder Coatings Application

Surface Modifiers for Powder Coatings	Scratch Resistance	Matting Efficiency	Degassing	Post Addibility
<b>Micronized Products</b>				
Lanco™ TF 1778				yes
Lanco TF 1725 LF				yes
PowderAdd™ 9078				no
Lanco 1900 MF				yes
Lanco 1910 MF				no
PowderAdd 9094				no
PowderAdd 9027				no
Lanco 1550				no
Lanco 1410 LF				yes
Lanco PP 1362 D				yes
PowderAdd 9060				yes
Lanco Flow P 30	Hydrogenated castor oil used as process aid, supports flow and leveling of the powder coating film			
Lanco Flow P 10	Acrylic flow modifier 65% active on silica, effectively eliminates cratering, improves flow			
Lanco Stat 308	Conductivity promoter, aids in charging of powder particles and reduces Faraday cage effect			
PowderAdd G 130	Modified Silica used as process aid, supports fluidization and anti-caking			

low = high =

Miscellaneous Additives	Base	Particle Size $\mu\text{m Dv 50 max.}$	Density $\text{g/cm}^3 @ 68^\circ\text{F (20}^\circ\text{C)}$
PowderAdd™ G 130	Modified Silica	5.5	2.10
Lanco Stat 308	Conductivity Promoter	Fine Beads	0.96

# Matting Efficiency of Lanco & PowderAdd Texturing Agents



**Addition level PowderAdd 9087 0.4%, PowderAdd 9085 1%, all other products 2% on total formulation weight**

Surface Modifiers for Texturing of Powder Coatings	Description of Texture	Matting Grade	Minimum Addition Rate
Lanco TF 1830 N	Fine, Uniform	Glossy to Semi-Matte	0.8
PowderAdd 9080	Coarse	n/a	0.2
PowderAdd 9083	Fine, Uniform	Semi-Matte to Matte	0.5
PowderAdd 9085	Fine, Smooth Feel	Matte to Dry Matte	0.5
PowderAdd 9087	Fine, Uniform	Matte to Dry Matte	0.2
PowderAdd 9089	Fine, Uniform	Semi-Matte to Matte	0.5



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