



Perfect Protection

# Lanco™ Surface Modifiers

## Performance Enhancing Additives

The spot where a coating meets the outside world is the critical point of contact – where performance such as surface appearance, slip, abrasion resistance, feel and durability is vital. This is where Lanco, Lanco Glidd, Lanco Matt, LiquiMatt, and Aquaslip™ surface modifiers from Lubrizol excel. They can be used to produce a wide variety of properties and effects, helping products stand out from the competition.

Each type of coating – can, coil, wood, powder, architectural or industrial – has a specific set of performance requirements. That's why Lubrizol coating additives offer the widest range of product chemistries in whatever form you require – micronized powders, dispersions, emulsions or precipitates.

Lubrizol has research and manufacturing facilities in North America, South America, Europe and Asia, supported by a worldwide network of account managers, agents and distributors. We can solve your coatings problems in 24 time zones with one of the largest worldwide technical organizations in the industry, applying the leading technologies in surface modifiers. Combining global resources with local expertise, our experienced and knowledgeable staff can service customers anywhere in the world with personal attention and a reliable source of consistent, high-quality products.

Lubrizol can also help you develop innovative new products through our extensive research and application test facilities. We can work with you to solve problems in formulation, chemical synthesis, physical and chemical analysis, application testing and test development, molecular modeling and statistical analysis.

Make Lubrizol your first and last call for any surface modifier requirements. We can supply the product you need, in the form you want, anywhere in the world.

## LANCO™ Surface Modifier Application Recommendations

### LANCO™ Micronized Surface Modifiers

Products	Aqueous Based Coatings (2)	Primary & Secondary Use (1) Non-Aqueous Systems		Radiation Cured Systems	21 CFR 175.300 Compliant (3)	Slip	Blocking/ Non-Sticking	Silky, Soft Feel	Scratch Resistance	Metal Mark Resistance	Abrasion Resistance	Dirt Removal	Matting	Stability Against Polishing	Other Properties
		Solvent Based Coatings	Powder Coatings												
PP 1340 F	○	●		●	Yes	○	●		●	●	●	○	●	○	
PP 1350 F	○	●	○	●	Yes	○	●		●	●	●	○	●	○	
PP1362 D, SF	○	●	●	●	Yes (4)	●	●	●	●	○	○	○	●	○	Stabilizing
1382 LF	○	●				○			●	●	●		○		Sanding
1394 LF, F	○	●	●	●	Yes			○	●	●	●		○		
1400 SF	○	●	○	○	Yes (4)	●	●	●	●	○	○	○	●	○	
CP 1481 F, SF	○	●	○	○	Yes (4)		●	●	●	○	○	○	●	○	Stabilizing
PE 1500 F, SF	○	●	○	●	Yes	●	○	○	●	○	○	○	○	●	
1515 UM		●	●	●	Yes	●	○	○	●	○	○	○	○	●	
PE 1525 MF		●	○	○	Yes	●	○	○	●	○	○	○	○	●	
1530 SF	○	●	○	●	Yes	○	○	○	●	○	○	○	○	●	
PE 1544 F	○	●	●	○	Yes (4)	○	○	○	●	○	○	○	○	●	Stabilizing
1550			●		Yes	○	○	○	○	○	○	○	○	○	
1552 F	●	○				○	○	○	●	○	○	○	○	○	
PEW 1555	●	●		○		●	○	○	●	○	○	○	○	●	
1588 LF	●	●			Yes	○	○	○	●	○	○	○	○	○	
A 1601	○	●	○	○	Yes (4)	○	○	○	○	○	○	○	○	○	Sanding
A 1602	○	●	○	○	Yes (4)	○	○	○	○	○	○	○	○	○	Sanding
A 1610	○	●	○	○	Yes (4)	○	○	○	○	○	○	○	○	○	Structuring, Sanding
D2S	○	●	○	○	Yes (4)	○	○	○	○	○	○	○	○	○	
HM 1666		●	○		Yes (4)	○	○	○	○	○	○	○	○	○	
TF 1725, EF	○	●	●	●	Yes	○	○	○	○	○	○	○	○	○	
TFW 1765	●	●		○		○	○	○	○	○	○	○	○	○	
TF 1778	○	●	●	○	Yes	○	○	○	○	○	○	○	○	○	
TF 1780, EF	○	●	○	○	Yes	○	○	○	○	○	○	○	○	○	
1792	○	●		○		○	○	○	○	○	○	○	○	○	
1793	○	●		○		○	○	○	○	○	○	○	○	○	
1795	○	●	●	○		○	○	○	○	○	○	○	○	○	Texturing
1796	○	●		○		○	○	○	○	○	○	○	○	○	
1797	○	●	●	○		○	○	○	○	○	○	○	○	○	
1799	○	●	●	○	Yes	○	○	○	○	○	○	○	○	○	Texturing
TF 1830		●	●		Yes	○	○	○	○	○	○	○	○	○	Texturing
1890		●	●			○	○	○	○	○	○	○	○	○	Texturing
1900 MF		●	●		Yes	○	○	○	○	○	○	○	○	○	
1910 MF		●	●			○	○	○	○	○	○	○	○	○	
SM 2001	○	●	●	●	Yes	○	○	○	○	○	○	○	○	○	
SM 2003	○	●	●	○	Yes (4)	○	○	○	○	○	○	○	○	○	
SM 2005	○	●	●	○	Yes	○	○	○	○	○	○	○	○	○	

## LANCO™ GLIDD & AQUASLIP™ Surface Modifier Application Recommendations

### LANCO™ GLIDD Dispersions

2312		●						●	○	○	○		○	○	
4120		●					●		○	○	○		○	○	
4830		●				●	●		○	○	○	○	○	○	
4832		●			Yes (4)	○	○		○	○	○	○	○	○	
4918		●			Yes (4)	○	○		○	○	○	○	○	○	
4925		●							○	○	○	○	○	○	
5060	○	●			Yes (4)	○	○	○	○	○	○	○	○	○	
5118	○	●			Yes (4)	○	○	○	○	○	○	○	○	○	
5518	○	●			Yes (4)	○	○	○	○	○	○	○	○	○	
5575		●				○			○	○	○	○	○	○	
5618	○	●			Yes (4)	○	○	○	○	○	○	○	○	○	
KX		●			Yes (4)	○	○	○	○	○	○	○	○	○	
PEC		●			Yes (4)	○	○	○	○	○	○	○	○	○	Stabilizing
SE		●			Yes (4)	○	○	○	○	○	○	○	○	○	
TD		●				○	○	○	○	○	○	○	○	○	Stabilizing
FW 40	●	●		○		○	○	○	○	○	○	○	○	○	
3540	●	●			Yes (4)	○	○	○	○	○	○	○	○	○	
3993	●	●			Yes (4)	○	○	○	○	○	○	○	○	○	
FW 6215	●	●		○	Yes (4)	○	○	○	○	○	○	○	○	○	
6445	●	●				○	○	○	○	○	○	○	○	○	
6940	●	●				○	○	○	○	○	○	○	○	○	
5792		●				○	○	○	○	○	○	○	○	○	

### AQUASLIP™ Emulsions

680	●								●	●	●			○	
952	●				Yes (4)	●	●		●	●	●	●		○	
678	●								●	●	●			○	
942	●				Yes (4)	●	●		●	●	●	●		○	

### Other LANCO™ Surface Modifiers

MATT MC 1000	●	●		●	Yes	○			○	○				●	
MATT 2000	●	●		●	Yes	○			○	○				●	
GLIDD 2418		●							○	○				●	
GLIDD 4365		●												●	
LIQUIMATT 5730		●						○	○	○	○			●	
LIQUIMATT 6000	●					○	○		○	○	○			●	
LIQUIMATT 6024	●					○	○		○	○	○			●	
LIQUIMATT 6375	●								○	○	○			●	
ANTIMAR 153		●		○		○	○		○	○	○			○	
ANTIMAR 430		●				○	○		○	○	○			○	
ANTIMAR 431	●					○	○		○	○	○			○	
ANTIMAR 163	●					○	○		○	○	○			○	

#### Notes:

(1) ● Indicates highly recommended  
○ Indicates that this is a secondary use

(2) Some Lanco micronized surface modifiers are not wet by water and have a "nonaqueous" primary use. Most of these products may be useful in aqueous systems provided that appropriate surfactants or wetting agents are utilized. These products may be designated as having an "aqueous" secondary use. Contact Lubrizol for surfactant recommendations and additional information.

(3) Compliance with 175.300, without limitations, allows use of the material in resinous and polymeric coatings on articles designed for repeat use or for metal surfaces under good manufacturing practices and in compliance with end use and extractive limitations cited in specific regulations. Contact Lubrizol for compliance with other regulations.

(4) This product is 21CFR175.300 compliant subject to specific use/application limitations. Contact Lubrizol for additional information.

## LANCO™ Micronized Surface Modifiers

Product	Surface Modifier Type	Maximum Particle Size via Laser Diffraction		Target Melting Point		Maximum Acid Value (mg KOH/g Wax)	Penetration Hardness (ASTM D1321)	Density (g/cc) @20°C
		Median (µm-Dv50)	(µm-Dv90)	(°C)	(°F)			
PP 1340 F	PP-Modified PE	9	22	140	284	1	–	0.94
PP 1350 F	PP-Modified PE	9	22	150	302	1	–	0.94
PP 1362 D, SF	Modified PP	9, 6	22, 14	142	284	3	1–2	0.94
1382 LF	Modified Polyolefin	9	18	135	275	–	–	0.95
1394 LF, F	PP	9, 13	18, 25	140	284	–	–	0.90
1400 SF	Modified PE	6	14	142	284	4	–	0.97
CP 1481 F, SF	Modified PP	9, 6	22, 14	140	284	3	1–2	0.94
PE 1500 F, SF	PE	9, 6	22, 14	104	216	1	1	0.96
1515 UM	PE	1000	–	111	231	1	1	0.93
PE 1525 MF	Synthetic	15	35	106	221	1	1	0.96
1530 SF	PE	6	14	118	244	–	–	0.97
PE 1544 F	Modified PE	9	22	140	284	3	2	0.99
1550	Polyolefin Compound	Dv98≤150	Dv100≤500	117	243	–	–	0.95
1552 F	Polyolefin Compound	9	22	111	230	–	–	0.9
PEW 1555	Hydrophilic PE	9	22	102	216	3	1	0.96
1588 LF	Polyolefin Compound	9	18	105	221	1	–	0.96
A 1601	Amide	7	18	140	284	10	9	0.99
A 1602	Amide	9	22	142	288	8	–	0.98
A 1610	Amide	100% < 325 µm	–	140	284	10	–	0.99
D2S	Amide	9	22	140	284	8	10	1.00
HM 1666	Amide	9	22	186	367	10	1	0.99
TF 1725, EF	PTFE-Modified PE	6, 5	14, 10	104	216	1	2	0.98
TFW 1765	PTFE-Modified PE	6	14	102	216	1	2	0.98
TF 1778	PTFE-Modified PE	6	14	102	216	1	2	0.98
TF 1780, EF	PTFE-Modified PE	6, 5	14, 9.5	102	216	1	2	0.98
1792	PTFE	4	–	315–335	599–617	–	–	2.2–2.3
1793	PTFE	4	–	315–330	599–617	–	–	2.2–2.3
1795 NV	PTFE	10	–	315–330	599–617	–	–	2.3–2.3
1796	PTFE	6	–	315–335	599–617	–	–	2.2–2.3
1797	PTFE	5	–	315–330	599–617	–	–	2.2–2.3
1799	PTFE	4	–	315–330	599–617	–	–	2.2–2.3
TF 1830	PTFE-Modified PE	9	22	102	216	1	–	0.99
1890	PTFE	43	–	315–325	599–617	–	–	2.2–2.3
1900 MF	Polymer Compound	15	–	60	140	12	–	1.06
1910 MF	Polymer Compound	15	–	63	145	10	–	0.93
SM 2001	Polymer Compound	9	22	105	221	1	–	0.99
SM 2003	Polymer Compound	9	22	140	284	4	–	0.97
SM 2005	Synthetic	9	22	105	221	1	–	0.96

## AQUASLIP™ Emulsions

Product	Surface Modifier Type	Solids (%)	pH	Ionic Character	Melting Point		Density (g/cc) @ 20°C
					(°C)	(°F)	
680	Modified Polypropylene	40	7.5–9.0	Non-Ionic	155–160	311–320	1.0
952	Carnauba	25	9–10	Non-Ionic	81–86	178–187	1.0
678	Paraffin	30	9.5	Anionic	–	–	0.99
942	Carnauba	25	8.0–8.8	Non-Ionic	81–86	178–187	1.0

## LANCO™ GLIDD Dispersions

Product	Surface Modifier Type	Solids (%)	Solvent	Melting Point		Density (g/cc) @ 20°C
				(°C)	(°F)	
2312	Synthetic	12	Xylene, Butyl Acetate	–	–	0.88
4120	Polyethylene	23	Xylene	–	–	0.90
4830	PTFE Based	30	Aromatic 150, Butyl Cellosolve	100	212	0.90
4832	PTFE Based	32	Aromatic Hydrocarbon Glycol Ether	100	212	0.90
4918	Synthetic	18	Xylene	107–113	–	0.88
4925	Synthetic	25	Aromatic 100	105	221	0.90
5060	Carnauba	18	Dipropylene Glycol Monomethyl Ether	82	180	0.93
5118	Polyolefin Compound	18	Ethylene Glycol Monobutyl Ether	102	216	0.91
5518	Carnauba Based	18	Ethylene Glycol Monobutyl Ether	82	180	0.93
5575	Polyolefin Compound	45	Ester	105	221	0.97
5618	Polyolefin Compound	18	Isopropanol	102	216	0.82
KX	Polyethylene	20	Xylene	106	223	0.88
PEC	Carnauba-Modified, Polyethylene	15	60% Aromatic 150, 25% Methoxy Propanol	102	216	0.91
SE	Microcrystalline	15	35% Aromatic 150, 50% Methoxy Propanol	79	174	0.91
TD	Polyethylene	25	Isopropanol	111	232	0.82
FW 40	PP-Modified PE	27.5	Water	150	302	0.96
3540	Oxidized PE/PTFE	37	Water	–	–	1.11
3993	PTFE	42	Water	–	–	1.48
FW 6215	Polyethylene	36.60	Water	102	216	0.98
6445	Synthetic	42	Water	105	221	0.97
6940	PTFE	41.5	Water	–	–	1.48
5792	PTFE	16	Isopropanol	–	–	0.88

## Other LANCO™ Surface Modifiers

Product	Function	Product Form	Solids (%)	Solvent	Median Particle Size via Laser Diffraction (µm-Dv50)	Density (g/cc) @ 20°C
MATT MC 1000	Matting Agent	Micronized Powder	100	–	<7	2.0
MATT 2000	Matting Agent	Micronized Powder	100	–	6	2.0
GLIDD 2418	Silica Stabilizer, Antisettling Agent	Dispersion	10	Xylene, Tetraline Butanol, Diacetone Alcohol	–	0.88
GLIDD 4365	Water Proofing	Dispersion	72	Mineral Spirits	–	0.85
LIQUIMATT 5730	Matting Agent	Dispersion	24	Xylene, Butyl Acetate	–	0.96
LIQUIMATT 6000	Matting Agent	Dispersion	100	–	–	0.96
LIQUIMATT 6024	Matting Agent	Dispersion	15	Water	–	1.05
LIQUIMATT 6375	Matting Agent	Dispersion	50	Water	–	1.11
ANTIMAR 153	Surface Additive	Dispersion	25	Aromatic 100, Methoxy Propanol	–	0.80
ANTIMAR 430	Surface Additive	Dispersion	52	Xylene/Isobutanol	–	0.94
ANTIMAR 431	Surface Additive	Dispersion	52	Ethylene Glycol Monobutyl Ether	–	0.96
ANTIMAR 163	Surface Additive	Dispersion	51	Mineral Spirits	–	0.87

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## PRODUCT SELECTION GUIDE

# High-Performance Lanco™ Surface Modifiers For the Paint and Coatings Industry



LANCO™

LANCO™ GLIDD

LANCO™ MATT

LANCO™ LIQUIMATT

AQUASLIP™



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