



CARBOSET®

PERMAX

DORESCO®

LANCO™

LANCO GLIDD



High-Performance Polymers and Additives for OEM Metal Coatings



LANCO LIQUIMATT

LANCO FLOW

IRCOGEL®

SOLSPERSE®

CARBOSET®

PERMAX

DORESCO®

LANCO™

LANCO GLIDD

LANCO LIQUIMATT



CARBOSET®

PERMAX

DORESCO®

LANCO™

LANCO GLIDD

LANCO LIQUIMATT

LANCO FLOW

IRCOGEL®

SOLSPERSE®



For OEM metal finishes that are both durable and dazzling, turn to **Lubrizol** first. We offer one of the industry's most comprehensive portfolios of polymers, hyperdispersants and wax additives to help you develop finishes that are extremely durable, while maintaining an exquisite look that is both scratch- and mar-resistant.



CARBOSET®

PERMAX

DORESCO®

LANCO™

LANCO GLIDD

LANCO LIQUIMATT

LANCO FLOW

IRCOGEL®

SOLSPERSE®

Ideal for use on various substrates – including steel, aluminum, brass and galvanized metal – Lubrizol's broad product line offers you:

- **Polymers** that provide excellent resistance to water, corrosion and chemicals, with formulations that meet FDA approval and low VOC requirements.
- **Hyperdispersants** with higher pigment loading, improved flow and excellent gloss retention.
- **Wax additives** for durability and extended life.

Compatible with a variety of systems, Lubrizol products can be used in numerous OEM metal applications, such as transportation and automotive, fixtures and fasteners, small metal parts, tools and machinery to name a few.

And Lubrizol offers more than just high-performance products. We provide customers around the globe with advanced research and development, comprehensive product and applications testing, technical expertise and a focus on customer service that is unparalleled in the industry. No matter what your application requirements, our team is dedicated to meeting your specific needs.

➤ Lubrizol Polymers and Additives for OEM Metal Coatings



CARBOSSET ACRYLIC EMULSIONS								
Product	Appearance	% Solids	pH	Viscosity (cP)	MFFT (°C)	Specific Gravity	Freeze/Thaw	Description/Suggested Uses
Carboset CR-765	Milky White	41.5	8.2	75	34	1.03	Protect	Specifically designed for DTM applications but also excellent for primers and topcoats. High gloss, stain resistant DTM coatings with excellent adhesion and block resistance.
Carboset CR-785	Milky White	42.5	8	40	44	1.03	Protect	Designed for industrial gloss enamels that require excellent hydrocarbon resistance combined with excellent water resistance, such as automotive or machinery coatings that require gasoline resistance.
Carboset CR-795	Milky White	45	8.3	75	24	1.03	Protect	Acrylic emulsion designed for DTM applications to provide excellent adhesion combined with superior resistance properties and corrosion resistance.
Carboset PL-958	Milky White	47	8	65	<10	1.07	Protect	Clear or pigmented peelable coatings. Excellent release from a variety of substrates. Good tensile and elongation. Very low VOC coatings. For spray booth coatings, temporary product protectants and paint maskants. Suitable for some FDA applications.

CARBOSSET ACRYLIC COLLOIDAL DISPERSIONS, RESINS & SOLUTIONS										
Product	Appearance	% Solids	pH	Viscosity (cP)	MFFT (°C)	Specific Gravity	Tg (°C)	Freeze/Thaw	Acid Number	Description/Suggested Uses
Carboset 514-H	Translucent	40	7	350	<10	1.05	28	Pass	65	Soft, higher acid dispersion. Excellent rewet uncrosslinked.
Carboset 560	Translucent	27	7.6	30	17	1.03	47	Pass	116	An acrylic colloidal dispersion with excellent water- and UV-resistance. Easily removable with alkali cleaners. Recommended for temporary (alkali-strippable) coatings requiring excellent water resistance. Suitable for use in dry film lubricants.

PERMAX EMULSIONS									
Product	Tg (°C)	Charge	% Solids	pH	Specific Gravity	Viscosity (cP)	Heat Reactive	Carboxylated	Description/Suggested Uses
Permax® 803	MFFT is 9°C	A	59.5	1.7	1.21	50	•	•	VDC acrylic copolymer that provides exceptionally low MVTR. Excellent corrosion- and humidity-resistance. Recommended for maintenance primers, automotive under-hood/under-body coatings, MVT-barrier coatings and rust-conversion coatings.
Permax® 805	MFFT is 9°C	A	59.5	1.7	1.21	50	•	•	Finer particle size VDC acrylic copolymer that provides exceptionally low MVTR and improved stability. Excellent corrosion- and humidity-resistance. Recommended for maintenance primers, automotive under-hood/under-body coatings, MVT-barrier coatings and rust-conversion coatings.

► Lubrizol Polymers and Additives for OEM Metal Coatings (continued)

DORESCO SOLUTION ACRYLICS

Product	% NV	Viscosity (cP)	Tg (°C)	Solvent/Diluent	Function	Description/Suggested Uses
Doresco AC4-74	45	8,000	50	Toluene	Carboxyl	Adhesion-promoted resin designed for metal, glass and other polar substrates.
Doresco AC 4-127	45	20,000	65	Toluene/ Xylene	Carboxyl	Adhesion-promoted resin designed for metal, glass and other polar substrates.
Doresco AC25-119	70	10,000	54	Solvesso 100	Polar	Pigment dispensing resin. Alkyd modifier.
Doresco AC32-18	50	3,000	72	Toluene/ Xylene	Polar	Medium-hard acrylic resin designed for aerosol paints, grinding vehicles, hot stamp foils and as a general purpose thermoplastic acrylic resin.
Doresco AC32-63	50	1,600	85	Toluene	Polar	Medium-hard acrylic resin designed for pigment wetting and modification of other resin systems.
Doresco EPY1-5	65	1,700	34	MAK	Epoxide	Glycidal functional acrylic resin for two-component, NCO-free coatings.
Doresco TA70-2	83	12,000	-6	EEP/n-BuAc	Hydroxyl	Low-VOC acrylic polyol for ultra lightfast acrylic urethanes.
Doresco UVC 75-1	100	1,500	N/A	None	Acrylate	Low viscosity melamine acrylate oligomer for energy-cured systems.

LANCO MICRONIZED SURFACE MODIFIERS

Product	Type	Maximum Particle Size via Laser Diffraction Medium (um-Dv50)	(um-Dv90)	Melting Point (°C)	Melting Point (°F)	Maximum Acid Value (mg KOH/g wax)	Density (g/cc) @ 20 °C	Description/Suggested Uses
Lanco 106	Functionalized Surface Modifier	<9	<18	110	230	<1	0.95	Easy-to-use micronized surface modifier that provides surface protection, good feel and matting. Can be easily dispersed even with low-speed mixers.
Lanco 208	Functionalized Surface Modifier	≤9	≤18	123	253	<1	1.02	Improves scratch and abrasion resistance as well as pencil hardness. Can be easily dispersed even with low-speed mixers.
Lanco 1725 and 1725 F	PTFE-Modified PE	6,5	14,10	126	259	1	0.98	General use PTFE-modified polyethylene wax, similar to TF 1778 but with a harder PE composition, provides excellent slip-, scratch- and abrasion-resistance.
Lanco PP 1362 D	Modified PP	9,6	22,14	140	284	3	0.94	General use polypropylene-modified polyethylene wax that provides good matting and scratch resistance.
Lanco TF 1778	PTFE-Modified PE	6	14	102	216	1	0.98	General use PTFE-modified polyethylene wax providing excellent slip-, scratch- and abrasion-resistance.
Lanco 1530 SF	PE	6	14	118	244	–	0.97	Coil coatings – general use to yield fine, smooth finish with improved scratch-resistance.
Lanco 1768	PTFE-Modified PE	9	22	105	221	<1	1.14	Very good slip and abrasion resistance as well as good metal marking resistance. Maintains excellent compatibility and dispersibility.

LANCO GLIDD DISPERSIONS

Product	Type	% Solids	Solvent	Melting Point [°C]	Melting Point [°F]	Density (g/cc) @ 20 °C	Description/Suggested Uses
Lanco Glidd 6445	Synthetic	42	Water	105	221	0.97	General use polypropylene-modified polyethylene wax that provides good matting and scratch-resistance.
Lanco Glidd 4830	PTFE-Based	30	Aromatic 150 Butyl	105	212	0.90	Easy to use dispersion PTFE-modified wax compound. Can replace micronized PT/PTFE powders.

LANCO FLOW CONTROL ADDITIVES

Product	Description/Suggested Uses
Lanco Flow U	Solvent-free acrylic flow and leveling agent for solventborne and solvent-free coatings
Lanco Flow UA50	Acrylic flow and leveling agent to control surface defects in a wide range of solvent coatings; supplied at 50% in aromatic 100.

LANCO LIQUIMATT MATTING AGENTS

Product	Function	Product Form	% Solids	Solvent	Density (g/cc) @ 20 C	Description/Suggested Uses
LiquiMatt 5730	Matting Agent	Dispersion	24	Xylene, Butyl Acetate	0.96	Easy to use liquid matting agent, providing excellent surface feel and uniform matting.
LiquiMatt 6375	Matting Agent	Dispersion	50	Water	1.00	Easy to use liquid matting agent that also provides excellent surface protection.

SOLSPERSE HYPERDISPERSANTS

Product	Activity	Product Form	Solvent	Organic Pigments	Carbon Black	Inorganic Pigments	Silica	Description/Suggested Uses
Solsperser 32500	40	Liquid	Butyl Acetate	X	X			High-performance polar solvents.
Solsperser 32600	40	Liquid	Aromatic 100	X	X			High-performance aromatic solvents.
Solsperser 36600	100	Paste	--			X		High-performance TiO2 dispersion in liquid coatings.

IRCOGEL RHEOLOGY CONTROL & SPECIALTY ADDITIVES

Product	Type	% Solids	Solvent	Description/Suggested Uses
Ircogel 955	Gelled Sulfonate	60	Aromatic 100	Sag control and suspension aid for 2K urethanes and blocked acid catalyzed P-ester or acrylic melamine.
Ircogel 941	Gelled Sulfonate	40	Aromatic 100	Pourable version of Ircogel 955.
Lubrizol 2061	Acid Phosphate Polymer	65	Glycol Ether EB	Epoxy functional polymeric phosphate ester adhesion promoter for DTM coatings.
Lubrizol 2062	Acid Phosphate Polymer	60	IsoButanol	Hydroxy functional polymeric phosphate ester adhesion promoter for DTM coatings and metallic pigment stabilization.
Lubrizol 2063	Acid Phosphate Polymer	55	Glycol Ether EB	Carboxy functional polymeric phosphate ester adhesion promoter for DTM coatings and metallic pigment stabilization.





**Global Headquarters
Lubrizol Advanced Materials, Inc.**

9911 Brecksville Road
Cleveland, Ohio 44141-3201
216.447.5000
1.800.380.5397

For more information on Lubrizol's complete line
of products for the paints and coatings industry,
contact your Lubrizol representative or call us at

1.800.380.5397

Information is also available on-line at

www.lubrizolcoatings.com



The information contained herein is believed to be reliable, but no representations, guarantees or warranties of any kind are made as to its accuracy, suitability for particular applications or the results to be obtained therefrom. The information is based on laboratory work with small-scale equipment and does not necessarily indicate end product performance. Because of the variations in methods, conditions and equipment used commercially in processing these materials, no warranties or guarantees are made as to the suitability of the products for the applications disclosed. Full-scale testing and end product performance are the responsibility of the user. Lubrizol Advanced Materials, Inc. shall not be liable for and the customer assumes all risk and liability of any use or handling of any material beyond Lubrizol Advanced Materials, Inc.'s direct control. The SELLER MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.

© is a registered trademark of The Lubrizol Corporation.
™ is a trademark of The Lubrizol Corporation.
© The Lubrizol Corporation 2010. All rights reserved.

Printed in U.S.A.
PC-019R
April 2010