

Coil Coating Technologies – Easy Reference Guide

Resins & Binders

Carboset® 3145 - WB - Styrene Acrylic Emulsion for Topcoats

- Hydroxyl and carboxyl functionality
- Industrial applications, high pigment-binding efficiency, high gloss
- Reactivity toward aminoplasts and other crosslinking resins
- 42% solids, MFFT 40 °C, Tg 45 °C

Permax™ 805 - WB - PVC/PVDC Emulsion for Primers and Barrier Coatings

- Excellent corrosion and chemical resistance; effective with topcoats - acrylic, polyester, PVDF and PVDE
- Effective at thin films with superior salt spray performance
- Great adhesion to multiple metal substrates
- APEO & NMP-free, low gloss, 60% solids, MFFT 13 °C, pH 1.0 - 3.5

Carboset® GA-1594 - WB - Colloidal Dispersion of Acrylic Polymer

- Can be crosslinked with melamines to provide high gloss coatings
- Excellent adhesion to metals in bake systems
- Non-gassing properties with metallic pigments
- Great flow and leveling properties, neutralized in DMEA
- Translucent liquid, 40% solids, 55 g/L VOC (as supplied), Tg 28 °C, OH# 52

Doresco® AC4-74 - SB - Thermoplastic Acrylic

- DTM and primed steel and aluminum applications, proven adhesion promotion
- Soluble in aromatics, ketones, esters, and aliphatics
- Good toughness and flexibility for interior/exterior, tie-coat applications
- 45% solids (in toluene), Tg 50 °C

Adhesion Promoters

Lubrizol™ 2061, 2062H, 2063H Adhesion Promoters

- Metallic flake passivation
- Improved adhesion of solvent-based and water-based coatings to multiple metal substrates
- No adverse effect on film hardness, gloss, or dry time
- Used in coatings developed for multiple metal substrates (CRS, HRS, HDG, EG & ALUM)
- Effective increase in wet and dry adhesion properties
- Improved corrosion through better addition and metal passivation
- Used in ratios of 0.5-3% by total formulation weight in both, aqueous & solvent-borne coatings

Wax Additives

Lanco™ A1602 - Micronized Amide Wax

- Anti-blocking and slip properties
- Matting agent for topcoat systems
- Particle size Dv50≤9, Dv90≤22
- Melting point 140 °C (284 °F)

Lanco™ Glidd PMS Microcrystalline Wax Dispersion Modified PE

- 21% solids in solvent aromatic 150
- Particle size Dv50-4.5, Dv90-9.5
- Excellent slip for pre-painted metal coil
- Melting point > 88 °C (190 °F), minimum effect on gloss

Lanco™ TF 1788 C Micronized PTFE Modified PE

- Premium performance for slip and lubricity for metal forming, silky feel
- Particle size Dv50≤6, Dv90≤14
- Melting point > 102 °C (216 °F)

Lanco™ Glidd 4830 Polyolefin Wax Dispersion

- 32% solids in solvent aromatic 150/EB
- Particle size Dv50-6, Dv90-10
- Excellent abrasion, scratch and mar resistance, minimum effect on gloss
- Melting point > 121 °C (250 °F)
- COF reduction and roll form ease

Lanco™ Glidd 4832 LF PTFE Modified Wax Dispersion

- 32% solids in solvent aromatic 150/methoxypropanol
- Particle size Dv50-4.5, Dv90-8
- Excellent abrasion, scratch and mar resistance
- Melting point > 100 °C (212 °F)

Lanco™ 5671 Micronized PTFE

- Particle size Dv50-4, Dv90-15
- Premium anti-block, non-stick performance
- Excellent scratch and abrasion resistance
- Melting point > 315 °C (600 °F)
- Easy to incorporate in formulation

Lanco™ Matt 2000 Micronized matting agent

- Particle size Dv50-5.5
- Uniform matting agent for solvent-borne and water-borne coatings

Lanco™ Flow U Leveling Agent

- 100% solids with degassing technology for high speed coil coatings
- Excellent for coating wetting, pin hole, orange peel and crater reductions
- Coater operators have greater window for roll speed adjustments
- Broad compatibility with many chemistries and solvents
- FDA regulation 21CFR 175.300

Lanco™ Flow UA50 Leveling Agent

- 50% solids in aromatic 100
- Easy to handle and less throughput time for coating formulators
- Incorporates in a wide variety of solvent-borne polymer chemistries

Dispersants

Solsperse™ 2400SC – SB Dispersant

- 100% active polymeric dispersant. Highly effective for dispersion and stabilization of organic, inorganic and carbon black pigments in liquid organic media particularly aromatic solvent mixtures.
- Improved flocculation, flood and float resistance of phthalocyanine pigments in polyester coil coating systems
- Granular powder, density 1.13 g/cm³

Solsperse™ 32600 – SB Dispersant

- 40% active dispersant in Aromatic 100. Dispersion and stabilization of organic, carbon black and inorganic pigments in aromatic/ester solvent mixtures.
- Exceptional durability in exterior coil coatings systems
- Pale yellow liquid, density .98 g/cm³

Solsperse™ 36600 – SB Dispersant

- 50% active dispersant in Aromatic 100 recommended in aromatic & aromatic/ester solvent mixtures for dispersion of titanium dioxide and inorganic pigments
- Overbake resistance superior non-yellowing for TiO₂ pigment dispersion, improved opacity & hiding power, exceptional durability in exterior in coil coating systems
- Pale yellow liquid, density .98 g/cm³

Solsperse™ 75500 – SB Dispersant

- 40% active dispersant in n-butyl acetate. Highly effective for dispersion and stabilisation of carbon black pigments in aromatic/ester/ ketone solvent mixtures.
- Higher color strength, pigment loading and milling efficiency
- Pale yellow liquid, density .94 g/cm³

Solsperse™ 82500 – SB Dispersant

- 50% active in PGMEA/BA(4/1) highly efficient dispersant in aromatic/ester/ketone solvent mixtures with organic or inorganic pigments
- Highly effective without synergist on red and yellow pigments
- Broad compatibility with resins used for interior & exterior coil coatings

Solsperse™ 84500 – SB Dispersant

- 50% active dispersant in MPA. Improved milling efficiency reduces dispersion times with titanium dioxide and inorganic pigments in aromatic/ester/ketone solvent mixtures.
- Broad compatibility with topcoat resins used for interior & exterior coil coatings
- Non-yellowing for TiO₂ pigment dispersion, increased opacity and hiding power

Solsperse™ M387 – SB Dispersant

- 100% active dispersant used to produce low to zero VOC colorants
- Excellent compatibility in multiple-resin and solvent systems, highly effective on all pigments
- Improved flocculation, flood and float resistance
- Yellow to brown viscous liquid, density 1.02 g/cm³

Solsperse™ W100 – WB Dispersant

- 40% active dispersant in water designed for resin-free dispersion of inorganic, organic and anti-corrosive pigments in aqueous systems
- Optimum dosage levels 15-20% lower than competitive dispersants
- Reduced dispersant dosages minimize the impact on important properties such as corrosion and blocking resistance



BRINGING VALUE TO CUSTOMERS

Lubrizol Performance Coatings is a market-driven innovator of specialty chemicals for advanced coatings, inks and composites. Our portfolio of resins & binders, dispersants, wax additives, specialty additives, and formulated solutions solve challenges across a wide range of markets and applications. More than just a supplier, we are a collaborator, working closely with customers to achieve success in their markets by bringing robust value to relationships.

Collaborative Formulation

By fully engaging with customers to understand their specific market needs, Lubrizol can help in the formulation of differentiated performance.

Testing Capabilities

Lubrizol maintains extensive product testing capabilities to ensure formulated coatings for customers deliver intended protection, durability and aesthetic performance.

Global Customer Alignment

A worldwide network of labs and facilities that continues to expand is aligned with the global market needs of our customers, allowing us to bring localized service.

Product Innovation

Lubrizol is committed to market-driven product innovation derived from core competencies in resins & binders, dispersants, wax additives, and specialty additives.

Application Understanding

Lubrizol's thorough understanding of markets and applications allows us to help solve highly specialized coatings challenges.

Brands You Trust

- Permax™ Vinylidene Emulsions
- Carboset® Acrylic Emulsions
- Doresco® Acrylic Polymers
- Lanco™ Surface Modifiers
- Solsperse™ Hyperdispersants