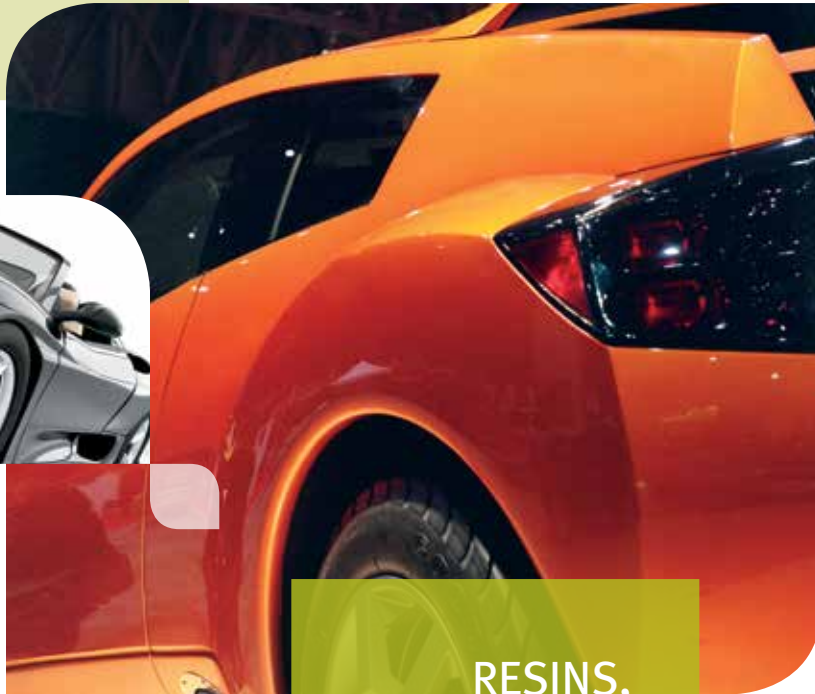


Lubrizol

PAINTS & COATINGS



RESINS,
POLYMERS,
DISPERSANTS
& ADDITIVES



AUTOMOTIVE
COATINGS
PRODUCT
GUIDE



COMPREHENSIVE SOLUTIONS PROVIDER FOR AUTOMOTIVE COATINGS

Lubrizol provides innovative solutions for Automotive OEM and Vehicle Refinish, including interior and underbody. We deliver decades of application expertise to enhance the performance and durability of automotive coatings. Our approach is to understand what is important to coating manufacturers, automotive manufacturers and consumers so that Lubrizol can address the challenges important to the industry. We help our customers meet rigorous OEM specifications, resulting in value-added, long-lasting coatings.

COMPREHENSIVE PRODUCT PORTFOLIO

We offer OEM and refinish coating manufacturers a diverse portfolio of resins and polymers, dispersants and additives that contribute to the appearance, protection, adhesion and resilience of automotive exterior and interior coatings. Whether you need a solvent-based or water-based system, Lubrizol can help meet your benchmarks for performance, efficiency and profitability.

To find the ideal solution, our technical service specialists work side-by-side with customers to personally guide them through the product selection process. To address unique challenges, we can tailor a formulation to meet customer-specified production and performance requirements.



AUTOMOTIVE OEM AND VEHICLE REFINISH EXPERTISE

Lubrizol's technology helps exterior automotive coatings shine in the demanding environments to which they are exposed. Our solutions provide customers enhanced coating durability, protecting the finish from corrosion, chemicals, scratches and UV damage. We deliver aesthetic qualities that enhance color and vibrancy, provide high initial and long-term gloss and exceptional overall appearance. Our leading dispersion technology enables formulators the ability to disperse and stabilize high performance colors and effect pigments.



INTERIOR PROTECTION

Lubrizol's products are an innovative choice for factory-applied, water-based and solvent-based plastic coatings. We provide solutions to protect a wide range of plastic substrates such as instrument panels, gauge clusters and door panels, including end applications made of hard plastics such as ABS, PC-ABS, PC and HIPS. Lubrizol offers dependable protection, meeting automotive OEM performance specifications for surface cleaners and protectants, sunscreen, lotions and insect repellants. Additionally, we bring protection from water, alkaline and acidic solutions, scratch, abrasion and print resistance.

GLOBAL SUPPORT AND SERVICE

In manufacturing, innovation is nothing without reliability. That's why our automotive products are backed by a worldwide system of analytical, service and technical support. From application consultation to individualized formulation to the confidence that comes with supply security, Lubrizol is always ready to help.



HYPERDISPERSANTS FOR OEM AUTOMOTIVE APPLICATIONS

PRODUCT NAME	PRODUCT TYPE	SUITABLE FOR SOLVENT-BASED	SUITABLE FOR WATER-BASED	ORGANIC	INORGANIC	CARBON BLACK	KEY BENEFITS AND FEATURES	PHYSICAL DESCRIPTION	% ACTIVE INGREDIENT	SOLVENT
Solsperse™ 5000s	Synergist	•		•		•	Enhanced performance when used with a hyperdispersant in solvent-based systems; for use with difficult-to-disperse blue/green, carbon black pigments.	Blue Powder	100	–
Solsperse™ 12000s	Synergist	•	•	•		•	Enhanced performance when used with a hyperdispersant in a water- or alcohol-based system; compatible with difficult-to-disperse organic blue/green and carbon black pigments.	Blue Powder	100	–
Solsperse™ 22000	Synergist	•		•			Enhanced performance when used with a hyperdispersant in a solvent-based system; compatible with difficult-to-disperse red, orange and yellow organic pigments.	Yellow Powder	100	–
Solsperse™ 20000	Polymeric Dispersant	•	•	•		•	Increased pigment wetting and tintorial properties; improved performance of poor wetting resins; produces highly pigmented concentrates making it ideal for mixing schemes.	Amber Liquid	100	–
Solsperse™ 27000	Polymeric Dispersant		•	•		•	For use in resin-containing systems; compatible with organic and carbon black pigments.	Pale Yellow-Amber Viscous Liquid	100	–
Solsperse™ 32500	Polymeric Dispersant	•		•		•	For use with carbon black and organic pigments; high pigment loading.	Pale Yellow-Brown Liquid	40	Butyl Acetate
Solsperse™ 32600	Polymeric Dispersant	•		•		•	For use with carbon black and organic pigments; high pigment loading.	Pale Yellow-Brown Liquid	40	Aromatic 100
Solsperse™ 35100	Polymeric Dispersant	•		•			For use with high performance, organic and effect pigments; high pigment loading.	Pale Yellow-Brown Liquid	40	Butyl Acetate
Solsperse™ 36600	Polymeric Dispersant	•			•		For use with TiO ₂ and other inorganic pigments; high tint strength and opacity.	Colorless-Yellow Viscous Liquid	50	Aromatic 100
Solsperse™ 37500	Polymeric Dispersant	•		•		•	For use with high surface area carbon blacks; improved jetness; high pigment loading.	Dark Brown Liquid	40	Butyl Acetate
Solsperse™ 46000	Polymeric Dispersant		•	•	•	•	For use in resin-free grind systems for organic and inorganic pigments.	Pale Yellow Viscous Liquid	50	Water
Solsperse™ 75500	Polymeric Dispersant	•		•		•	Improved pigment dispersion & stability	Yellow to Amber Liquid	40	Butyl Acetate
Solsperse™ 76500	Polymeric Dispersant	•		•	•	•	For use with organic, inorganic, and aluminum pigments; very high pigment loadings; compatible with CAB.	Pale Yellow Viscous Liquid	50	Butyl Acetate
Solsperse™ 83500	Polymeric Dispersant	•		•			High performance dispersant effective across a wide range of pigments and systems; particularly effective on organic reds and yellows.	Colorless to Yellow Liquid	40	PMA/Butyl Acetate (40/10)
Solsperse™ 84500	Polymeric Dispersant	•			•		Increased pigment concentration with improved rheological characteristics and stability of dispersion.	Colorless to Yellow Viscous Liquid	50	MPA
Solsperse™ 85000	Polymeric Dispersant	•			•		Dispersion of TiO ₂ with high filler loadings and improved wetting/dispersion.	Colorless to Yellow Viscous Liquid	100	–
Solsperse™ M387	Polymeric Dispersant	•		•	•	•	High performance for formulation of multi-media solvent-based dispersions; increased millbase pigment loadings; excellent compatibility in a wide range of resins and solvents; can be used to produce zero VOC ¹ colorants.	Yellow to Brown Viscous Liquid	100	–
Solsperse™ W100	Polymeric Dispersant		•	•	•	•	Highly pigmented resin-free and resin-minimal dispersions, on a wide range of particles including organics, inorganics and carbon black.	Yellow to Amber Liquid	40	Water
Solsperse™ W200	Dispersant		•	•		•	Rapid pigment wetting and improved dispersion stability while enabling optimal tinting strength & color development.	Dark Amber Liquid	100	–
Solsperse™ W320	Polymeric Dispersant	•			•		Improved dispersion & stability of transparent iron oxides and inorganics.	Pale Yellow to Amber Liquid	40	Water
Solsperse™ WV 400	Polymeric Dispersant		•	•	•	•	High performance dispersant that maximizes the pigment loading in the grind stage to improve production efficiency; for use in resin-free and resin-minimal formulations; high degree of viscosity and particle size stability.	Yellow-Brown Liquid	40	–

¹Can be used for coating formulations where ultra low to zero VOC content is desired.



RESINS AND POLYMERS FOR OEM AUTOMOTIVE APPLICATIONS

PRODUCT NAME	PRODUCT TYPE	SUITABLE FOR SOLVENT-BASED	SUITABLE FOR WATER-BASED	ROLE IN COATING SYSTEM	KEY BENEFITS AND FEATURES	PHYSICAL DESCRIPTION	WEIGHT SOLIDS (%)	DENSITY (LBS/GAL)	MFFT (°C)	pH
Carboset® CR-7181	Self-Crosslinking Acrylic Polymer		•	Resin for topcoat and/or primer for plastic substrates	Offers high gloss, excellent adhesion to variety of plastic substrates (ABS, Lexan, Noryl); excellent UV resistance.	Milky-White Emulsion	41.5	8.85	90	8.5-9.5
Carboset® CR-785	Acrylic Polymer		•	Resin for topcoat and/or primer for plastic substrates	Offers high gloss, excellent adhesion to variety of plastic substrates (ABS, Lexan, Noryl); excellent UV, gasoline, and solvent resistance; low VOC ¹ . Blendable polymer with polyurethanes.	Milky-White Emulsion	42.5	8.56	44	8.0
Carboset® CR-795	Acrylic Polymer		•	Resin for topcoat and/or primer for plastic substrates	Offers excellent balance of properties; gloss, chemical resistance and corrosion resistance.	Milky-White Emulsion	45.0	8.6	24	8.3
Carboset® PC-27	Self-Crosslinking Acrylic Polymer		•	Resin for topcoat and/or primer for rigid plastic substrates	Offers superior resistance to sunscreens, insect repellents, surface cleaners and protectants; excellent scratch, abrasion and print resistance; passes GMW-14445; excellent adhesion to a variety of rigid plastic substrates (ABS, Lexan, Noryl).	Milky-White Emulsion	42.0	8.8	90	8.0-9.0
Carboset® PL-958 Carboset® PL-958B*	Acrylic Polymer		•	Resin for factory/field applied peelable temporary coatings	Offers easy peelability with no residue; high tensile strength and very good solvent resistance; can be formulated into a clear or pigmented temporary/protective coating.	Milky-White Emulsion	47.0	8.9	43	8.0
Permax™ 805	Vinylidene Chloride Copolymer		•	Resin for underbody/undercarriage coatings requiring corrosion resistance; maintenance primers; rust converting primers	Excellent protection from corrosion/rust; improved adhesion to a wide range of metal surfaces; superior shelf stability to competitive products. APEO free ² .	Milky-White Emulsion	60.0	10.7	13.5	1.0-2.2
Sancure™ PC-55	Aliphatic Polyurethane Dispersion		•	Polyurethane system for 2K plastic coatings	Offers superior resistance to sunscreens, insect repellents, surface cleaners and protectants; excellent balance of mar resistance with soft tactile feel; excellent UV resistance and NMP-free ³ ; low VOC ¹ .	Translucent Dispersion	42.0	8.8	-	8.0

PERFORMANCE ADDITIVES FOR OEM AUTOMOTIVE APPLICATIONS

(FOR POWDER COATING REQUIREMENTS, REFER TO POWDER COATINGS PRODUCT GUIDE)

PRODUCT NAME	PRODUCT TYPE	SUITABLE FOR SOLVENT-BASED	SUITABLE FOR WATER-BASED	ROLE IN COATING SYSTEM	KEY BENEFITS AND FEATURES	PHYSICAL DESCRIPTION	% ACTIVE INGREDIENT	SOLVENT
Lanco™ 1380 F	Surface Modifier	•	•	Surface protection	Improves scratch resistance; provides matting effect with excellent anti-burnishing; smooth surface feel.	White Powder	100	Powder
Lanco™ Flow L	Acrylic Flow Modifier	•		Flow and leveling agents	Improves appearance of film by eliminating pin holes, craters and fisheyes; reduces orange peel appearance; post-addable and recoatable.	Clear Colorless Liquid	95	Xylene
Lanco™ Flow U	Acrylic Flow Modifier	•		Flow and leveling agents	Improves appearance of film by eliminating pin holes, craters and fisheyes; reduces orange peel appearance; post-addable and recoatable.	Colorless to Pale Yellow Liquid	100	Solvent-Free
Lanco™ Glidd 9530	Surface Modifier		•	Surface protection	Improves scratch and abrasion resistance; easily incorporated by simple stirring.	Milky-White Dispersion	30	Water
Lanco™ TF 1780, 1780 EF	Surface Modifier	•	•	Surface protection	Excellent improvement in scratch and abrasion resistance. Excellent water repelling properties. Used in solvent-based and powder coatings.	White Powder	100	Micronized Powder
Lanco™ Matt 2000	Surface Modifier	•	•	Matting agent	Combines uniform matting control with excellent dispersibility. Performs as an additive with scratch and mar resistance properties.	White powder	100	Micronized Powder
Lubrizol® 2063	Adhesion Promoter	•	•	Promotes adhesion to metal substrates	DTM adhesion promoter with broad resin compatibility for ferrous metal and aluminum especially in water-based systems; metallic pigment passivation.	Clear Liquid	56	Butyl Cellosolve
Solthix™ 250	Rheology Modifier	•		Viscosity and flow control	Excellent sag resistance and pigment suspension; minimal impact on gloss; high flop index potential.	Pale Yellow Liquid	40	PM Acetate
Solthix™ A100	Rheology Modifier		•	Viscosity and flow control	Highest thixotropic index; high efficiency; excellent sag resistance and pigment suspension; minimal impact on gloss; high flop index potential.	Milky-White Emulsion	30	Water
Solthix™ A200	Rheology Modifier		•	Viscosity and flow control	High thixotropic index; excellent sag resistance and pigment suspension; minimal impact on gloss; high flop index potential.	Milky-White Emulsion	30	Water

*Carboset® PL-958B is equivalent to Carboset® PL-958. Carboset PL-958 is produced in North America using domestically-sourced raw materials. Carboset PL-958B is produced in Europe using domestically-sourced raw materials.

¹Can be used for coating formulations where less than 75 g/lVOC is desired (as measured by EPA Method 24).

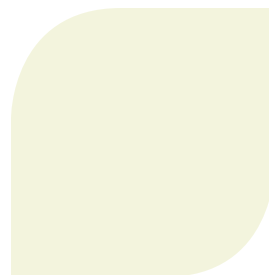
²APEO not intentionally added to the composition or used in manufacture.

³NMP not intentionally added to the composition or used in manufacture.

HYPERDISPERSANTS FOR VEHICLE REFINISH (VR) AUTOMOTIVE APPLICATIONS

PRODUCT NAME	PRODUCT TYPE	SUITABLE FOR SOLVENT-BASED	SUITABLE FOR WATER-BASED	ORGANIC	INORGANIC	CARBON BLACK	KEY BENEFITS AND FEATURES	PHYSICAL DESCRIPTION	% ACTIVE INGREDIENT	SOLVENT
Solsperse™ 5000s	Synergist	•		•		•	Enhanced performance when used with a hyperdispersant in solvent-based systems; for use with difficult to disperse blue/green, carbon black pigments.	Blue Powder	100	–
Solsperse™ 12000s	Synergist	•	•	•		•	Enhanced performance when used with a hyperdispersant in a water or alcohol-based system; compatible with difficult-to-disperse organic blue/green and carbon black pigments.	Blue Powder	100	–
Solsperse™ 22000	Synergist	•		•			Enhanced performance when used with a hyperdispersant in a solvent-based system; compatible with difficult-to-disperse red and yellow organic pigments.	Yellow Powder	100	–
Solsperse™ 20000	Polymeric Dispersant	•	•	•		•	Increased pigment wetting and tintorial properties; improved performance of poor wetting resins; produces highly pigmented concentrates making it ideal for mixing schemes.	Amber Liquid	100	–
Solsperse™ 27000	Polymeric Dispersant		•	•		•	For use in very low resin-containing systems; compatible with organic and carbon black pigments.	Pale Yellow-Amber Viscous Liquid	100	–
Solsperse™ 32600	Polymeric Dispersant	•		•		•	For use with carbon black and organic pigments; high pigment loading.	Orange/Yellow Viscous Liquid	40	Aromatic 100
Solsperse™ 35100	Polymeric Dispersant	•		•			For use with high performance, organic and effect pigments; high pigment loading.	Pale Yellow-Brown Liquid	40	Butyl Acetate
Solsperse™ 36600	Polymeric Dispersant	•			•		For use with TiO ₂ and other inorganic pigments; high tint strength and opacity.	Colorless-Yellow Viscous Liquid	50	Aromatic 100
Solsperse™ 37500	Polymeric Dispersant	•		•		•	For use with high surface area carbon blacks; improved jetness; high pigment loading.	Dark Amber/Brown Liquid	40	Butyl Acetate
Solsperse™ 46000	Polymeric Dispersant		•	•	•	•	For use in resin-free grind systems for organic and inorganic pigments.	Yellow Viscous Liquid	50	Water
Solsperse™ 75500	Polymeric Dispersant	•		•		•	Improved pigment dispersion & stability	Yellow to Amber Liquid	40	Butyl Acetate
Solsperse™ 76500	Polymeric Dispersant	•		•	•	•	For use with organic, inorganic and aluminum pigments; very high pigment loadings; compatible with CAB.	Yellow/Brown Liquid	50	Butyl Acetate
Solsperse™ 83500	Polymeric Dispersant	•		•			High performance dispersant effective across a wide range of pigment and systems; particularly effective on organic reds and yellow.	Colorless to Yellow Liquid	40	PMA/Butyl Acetate (40/10)
Solsperse™ 84500	Polymeric Dispersant	•			•		Increased pigment concentration with improved rheological characteristics and stability of dispersion.	Colorless to Yellow Viscous Liquid	50	MPA
Solsperse™ 85000	Polymeric Dispersant	•					Dispersion of TiO ₂ with high filler loadings and improved wetting/dispersion.	Colorless to Yellow Viscous Liquid	100	–
Solsperse™ M387	Polymeric Dispersant	•		•	•	•	For high performance formulation of multi-media solvent-based dispersions; increased millbase pigment loadings; excellent compatibility in a wide range of resins and solvents; can be used to produce zero VOC ¹ colorants.	Yellow to Brown Viscous Liquid	100	–
Solsperse™ W100	Polymeric Dispersant		•	•	•	•	Highly pigmented resin-free and resin-minimal dispersions, on a wide range of particles including organics, inorganics and carbon black.	Yellow to Amber Liquid	40	Water
Solsperse™ W200	Dispersant		•	•		•	Rapid pigment wetting and improved dispersion stability while enabling optimal tinting strength and color development.	Dark Amber Liquid	100	–
Solsperse™ W320	Polymeric Dispersant	•			•		Improved dispersion and stability of transparent iron oxides and inorganics.	Pale Yellow to Amber Liquid	40	Water
Solsperse™ WV 400	Polymeric Dispersant		•	•	•	•	High performance dispersant that maximizes the pigment loading in the grind stage to improve production efficiency; for use in resin-free and resin-minimal formulations; high degree of viscosity and particle size stability.	Yellow-Brown Liquid	40	–

¹Can be used for coating formulations where low to zero VOC content is desired.



RESINS AND POLYMERS FOR VEHICLE REFINISH (VR) AUTOMOTIVE APPLICATIONS

PRODUCT NAME	PRODUCT TYPE	SUITABLE FOR SOLVENT-BASED	SUITABLE FOR WATER-BASED	ROLE IN COATING SYSTEM	KEY BENEFITS AND FEATURES	PHYSICAL DESCRIPTION	WEIGHT SOLIDS	DENSITY (LBS/GAL)	MFFT (°C)	pH	ACID NUMBER	HYDROXYL CONTENT (% OVER SOLIDS)	SOLVENT
Carboset® CR-781	Self-Crosslinking Acrylic Polymer		•	Resin for top coat and/or primer for plastic substrates	Offers high gloss, excellent adhesion to variety of plastic substrates (ABS, Lexan, Noryl); excellent UV resistance.	Milky-White Emulsion	41.5	8.85	90	8.5-9.5	-	-	-
Carboset® CR-785	Acrylic Polymer		•	Resin for top coat and/or primer for plastic substrates	Offers high gloss, excellent adhesion to variety of plastic substrates (ABS, Lexan, Noryl); excellent UV, gasoline, and solvent resistance; low VOC ¹ . Blendable polymer with polyurethanes.	Milky-White Emulsion	42.5	8.56	44	8.0	-	-	-
Carboset® CR-795	Acrylic Polymer		•	Resin for top coat and/or primer for plastic substrates	Offers excellent balance of properties; gloss, chemical resistance, and corrosion resistance.	Milky-White Emulsion	45.0	8.6	24	8.3	-	-	-
Carboset® PC-27	Self-Crosslinking Acrylic Polymer		•	Resin for top coat and/or primer for rigid plastic substrates	Offers superior resistance to sunscreens, insect repellents, surface cleaners and protectants; excellent scratch, abrasion and print resistance; passes GMW-14445; excellent adhesion to a variety of rigid plastic substrates (ABS, Lexan, Noryl).	Milky-White Emulsion	42.0	8.8	90	8.0-9.0	-	-	-
Carboset® PL-958 Carboset® PL-958B*	Acrylic Polymer		•	Resin for factory/field applied peelable temporary coatings	Offers easy peelability with no residue; high tensile strength and very good solvent resistance; can be formulated into a clear or pigmented temporary/protective coating.	Milky-White Emulsion	47.0	8.9	<3	8.0	-	-	-
Doresco® HS-4	Hydroxylated Solution Acrylic	•		Solution acrylic system for solvent-based primers	Quick hardening; excellent gloss and weather; yellowing resistance; high solid content; excellent adhesion on plastics and metal surfaces.	Amber Liquid	69-72	-	-	-	7-10	4-3	Butyl Acetate
Doresco® OH60	Hydroxylated Solution Acrylic	•		Solution acrylic system for solvent-based primers	Excellent gloss; excellent resistance to chemicals, light and weathering; excellent adhesion to metal surfaces.	Amber Liquid	59-61	-	-	-	<10	3	Methoxy Propyl Acetate/Xylene (1:1)
Permax™ 805	Vinylidene Chloride Copolymer		•	Resin for underbody/undercarriage coatings requiring corrosion resistance; maintenance primers; rust converting primers.	Excellent protection from corrosion/rust; improved adhesion to a wide range of metal surfaces; superior shelf stability to competitive products. APEO free ² .	Milky-White Emulsion	60.0	10.7	13-5	1.0-2.2	-	-	-
Sancure™ PC-55	Aliphatic Polyurethane Dispersion		•	Polyurethane system for 2K plastic coatings	Offers superior resistance to sunscreens, insect repellents, surface cleaners and protectants; excellent balance of mar resistance with soft tactile feel; excellent UV resistance and NMP-free ³ ; low VOC ¹ .	Translucent Dispersion	42.0	8.8	-	8.0	-	-	-

*Carboset® PL-958B is equivalent to Carboset® PL-958. Carboset PL-958 is produced in North America using domestically-sourced raw materials. Carboset PL-958B is produced in Europe using domestically-sourced raw materials.

PERFORMANCE ADDITIVES FOR VEHICLE REFINISH (VR) AUTOMOTIVE APPLICATIONS

PRODUCT NAME	PRODUCT TYPE	SUITABLE FOR SOLVENT-BASED	SUITABLE FOR WATER-BASED	ROLE IN COATING SYSTEM	KEY BENEFITS AND FEATURES	PHYSICAL DESCRIPTION	% ACTIVE INGREDIENT	SOLVENT
Lanco™ Flow L	Acrylic Flow Modifier	•		Flow and leveling agents	Improves appearance of film by eliminating pin holes, craters, and fisheyes; reduces orange peel appearance; post-addable and recoatable.	Clear Colorless Liquid	95	Xylene
Lanco™ Flow U	Acrylic Flow Modifier	•		Flow and leveling agents	Improves appearance of film by eliminating pin holes, craters, and fisheyes; reduces orange peel appearance; post-addable and recoatable.	Colorless to Pale Yellow Liquid	100	Solvent-Free
Solthix™ 250	Rheology Modifier	•		Viscosity and flow control	Excellent sag resistance and pigment suspension; minimal impact on gloss; high flop index potential.	Pale Yellow Liquid	40	PM Acetate
Solthix™ A100	Rheology Modifier		•	Viscosity and flow control	Highest thixotropic index; high efficiency; excellent sag resistance and pigment suspension; minimal impact on gloss; high flop index potential.	Water-White to Cream Homogeneous Latex	30	Water
Solthix™ A200	Rheology Modifier		•	Viscosity and flow control	High thixotropic index; excellent sag resistance and pigment suspension; minimal impact on gloss; high flop index potential.	Milky-White Emulsion	30	Water

¹Can be used for coating formulations where less than 75 g/lVOC is desired (as measured by EPA Method 24).

²APEO not intentionally added to the composition or used in manufacture.

³NMP not intentionally added to the composition or used in manufacture.

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