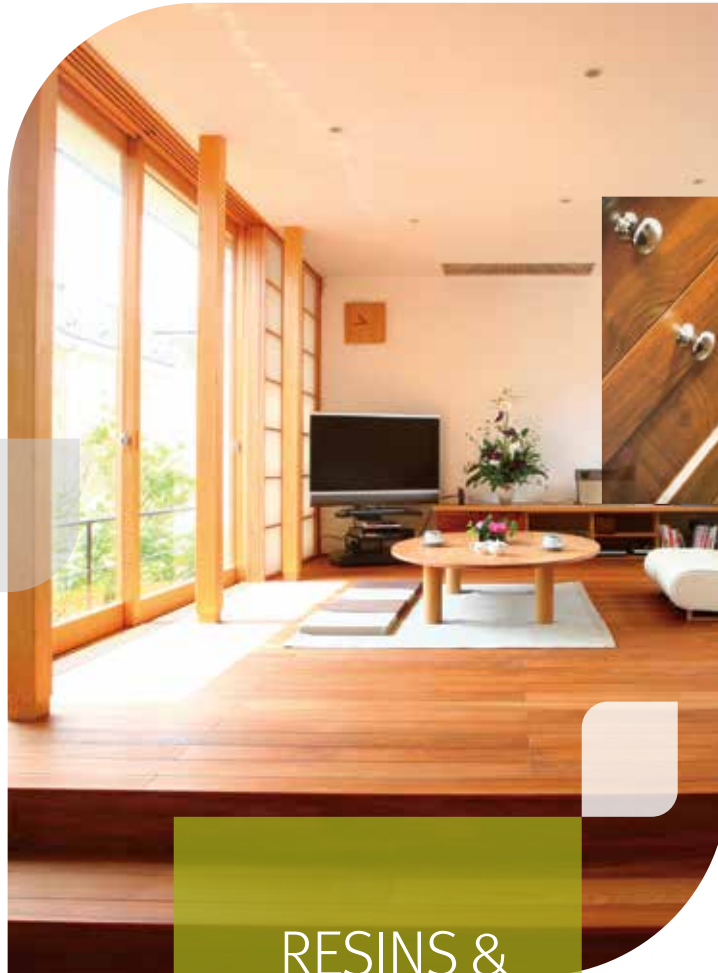


Lubrizol

PAINTS & COATINGS



RESINS &
ADDITIVES



WOOD
COATINGS
PRODUCT
GUIDE

QUICK REFERENCE GUIDE TO LUBRIZOL RESINS FOR WOOD COATINGS

WATER-BASED – RESINS FOR DIY/CONTRACTOR APPLIED WOOD FINISHES

- Aptalon™ W8030** – self-crosslinking and self-matting polyurethane dispersion with excellent matt appearance, hardness and chemical resistance
- Aptalon™ W8060 EU Select** – self-crosslinking polyurethane composite with excellent hardness and chemical resistance
- Carboset® 420 EU Select** – oil modified copolymer with high renewable content for low VOC¹ systems
- Carboset® AMo 400 EU Select** – acrylic modified oil based copolymer for ultra low VOC² systems; ideal as a wood sealer
- Carboset® 2968 EU Select** – self-crosslinking acrylic emulsion; very hard films with great chemical resistance
- Carboset® 7722 EU Select** – acrylic emulsion with great scrub resistance; wet alkyd adhesion and block resistance
- Carboset® 7733 EU Select** – acrylic emulsion for low VOC¹ systems with great scrub resistance; exterior durability
- Carboset® CR-728** – self-crosslinking acrylic emulsion with great chemical and stain resistance
- Sancure™ 825** – crosslinkable polyurethane dispersion with toughness and chemical resistance
- Sancure™ 970 EU Select** – crosslinkable high solids polyurethane composite, hard films with chemical resistance
- Sancure™ 20041 EU Select** – crosslinkable polyurethane dispersion
- Sancure™ OM-933** – water white oil modified polyurethane dispersion; chemical resistance and exterior durability
- Sancure™ OM-945** – high solids version of OM-933
- Turboset™ 2027 EU Select** – self-crosslinking polyurethane composite with outstanding chemical resistance
- Turboset™ Ultra Eco EU Select** – self-crosslinking polyurethane composite for ultra low VOC² formulations
- Turboset™ Ultra Pro** – self-crosslinking polyurethane dispersion with outstanding hardness and black heel mark resistance

WATER-BASED – RESINS FOR OEM APPLIED WOOD FINISHES

- Carboset® AMO 400 EU Select** – acrylic modified oil based resin for ultra low VOC² sealers and stains
- Carboset® 2968 EU Select** – self-crosslinking acrylic emulsion; very hard films with great chemical resistance
- Carboset® CR-735 EU Select** – self-crosslinking acrylic emulsion with great chemical resistance
- Carboset® CR-726 EU Select** – self-crosslinking acrylic emulsion for low VOC¹ coatings with good chemical resistance
- Sancure™ 825** – crosslinkable polyurethane dispersion with great chemical and stain resistance
- Sancure™ AU-4010** – polyurethane acrylic blend with rapid hardness development

WATER-BASED – RESINS FOR STAINS

- Carboset® 510 EU Select** – acrylic dispersion for low VOC¹ systems
- Carboset® AMO 400 EU Select** – acrylic modified oil based resin for ultra low VOC² systems with long open times

EU Select – indicates resins that are targeted for use in Europe because they are NEP, NMP, and APEO free as defined by not being intentionally used in the recipe nor in the processing of the material. They are also available for sale in other countries. Please check the Lubrizol SDS or contact your representative for a complete list of countries where these products are sold.

¹Low VOC systems are defined as systems with <140 g/l via US EPA Method 24 <75 g/l EU Method)

²Ultra Low VOC systems are defined as systems with <50 g/l via US EPA Method 24 <25 g/l EU method)



QUICK REFERENCE GUIDE TO LUBRIZOL ADDITIVES FOR WOOD COATINGS

SURFACE MODIFIERS

WATER-BASED

- Lanco™ 1940 LF** micronized proprietary copolymer blend
- Lanco™ PEW 1555 N** micronized hard hydrophilic PE wax
- Aquaslip™ 671** oxidized PE wax emulsion
- Aquaslip™ 677** modified paraffin wax emulsion
- Lanco™ Glidd 6148** dispersed polyethylene
- Lanco™ Glidd 6445** dispersed polyethylene
- Lanco™ Glidd 9530C** dispersed PTFE-modified wax
- Lanco™ Liquimatt 6000** proprietary liquid matting agent
- Lanco™ Liquimatt 6040** dispersed proprietary wax compound
- Lanco™ Liquimatt 6375** high solids modified silica dispersion

WATER OR SOLVENT-BASED

- Lanco™ 1370 LF** micronized modified PE wax
- Lanco™ 1580 LF** micronized PE wax
- Lanco™ 1588 LF** micronized polyolefin compound

SOLVENT-BASED

- Lanco™ PP1362D** micronized modified PP wax
- Lanco™ 1410 LF** micronized modified PE wax
- Lanco™ TF 1725** micronized PTFE modified PE wax
- Lanco™ TF 1778C** micronized PTFE modified PE wax
- Lanco™ Antimar 450C** modified wax dispersion
- Lanco™ Glidd 4370** dispersed modified hydrocarbons
- Lanco™ Liquimatt 5730** dispersed modified polyolefins

UV

- Lanco™ 1394 LF** micronized PP wax
- Carbocure™ 7000** proprietary liquid matting agent

All surface modifiers and hyperdispersants on this page are suitable for sale in Europe; please check the Lubrizol SDS or contact your representative for a complete list of countries where these products can be sold.

HYPERDISPERSANTS

WATER-BASED

- Solsperse™ 27000** 100% active polymeric dispersant
- Solsperse™ 40000** 85% active polymeric dispersant in water and DEA
- Solsperse™ 44000** 50% active polymeric dispersant in water
- Solsperse™ 46000** 50% active polymeric dispersant in water
- Solsperse™ W100** 40% active polymeric dispersant in water
- Solsperse™ W320** 40% active polymeric dispersant in water
- Humectant GRB4** proprietary blend of low VOC polyols

WATER OR SOLVENT-BASED

- Solsperse™ 45000** 100% active polymeric dispersant for inorganic pigments

SOLVENT-BASED

- Solsperse™ 32500** 40% active polymeric dispersant in n-butyl acetate
- Solsperse™ 36600** 50% active polymeric dispersant in Solvesso 100
- Solsperse™ 38500** 40% active polymeric dispersant in MPA
- Solsperse™ M385** 50% active polymeric dispersant in MPA
- Solsperse™ M386** 50% active polymeric dispersant in Aromatic 100
- Solsperse™ M388** 50% active polymeric dispersant in MPA

UV

- Solsperse™ 36000** 100% active polymeric dispersant
- Solsperse™ 39000** 100% active polymeric dispersant
- Solsperse™ 41000** 100% active polymeric dispersant for inorganic pigments
- Solsperse™ 71000** 100% active polymeric dispersant; especially for silica
- Solsperse™ 75000** 100% active polymeric dispersant
- Solsperse™ 85000** 100% active polymeric dispersant for TiO₂

UV OR WATER-BASED

- Solsperse™ 79000** 100% active polymeric dispersant especially for dispersing APP flame retardant pigments



A WORLD OF EXPERIENCE WORKING FOR YOU

Lubrizol is dedicated to helping our customers by understanding their needs and developing the Key Ingredients demanded for today's marketplace. We invite you to learn more about our diversified portfolio of resins and additives for wood coatings by visiting www.lubrizol.com/wood. Or better yet, contact your Lubrizol representative to see first-hand how we can work with you to find an effective, efficient solution to meet your production benchmarks.



WHAT WE ADD MAKES THE DIFFERENCE.™

RESINS AND ADDITIVES:

- Extended life and durability
- Enhanced mar and scratch resistance
- Improved chemical and stain resistance
- Gloss control and improved flow
- Improved pigment dispersion and stability
- Solutions for reduced environmental impact

THE LUBRIZOL ADVANTAGE:

- A recognized leader in advanced coating technologies
- Global analytical and research resources and expertise
- Product selection and formulation guidance

WHAT WE ADD MAKES THE DIFFERENCE.™

Lubrizol “adds” the right elements to help our customers formulate differentiated performance in their coatings products, including unique solutions that make wood more durable and more beautiful.

FORMULATION

By fully engaging with customers to understand their specific market needs, Lubrizol is well prepared to help formulate solutions for unique and differentiated performance.

TESTING CAPABILITIES

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

PRODUCT INNOVATION

Lubrizol is committed to market-driven product innovation derived from core competencies in resins & binders, hyperdispersants, surface modifiers, specialty additives and formulated solutions.

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.

APPLICATION UNDERSTANDING

Lubrizol maintains an extensive understanding of the market needs for various surface applications that allows us to help solve highly specialized coatings challenges with our customers.



PERFORMANCE GUIDE TO LUBRIZOL RESINS & SURFACE MODIFIERS

RESINS FOR DIY/CONTRACTOR APPLICATIONS

	PRODUCT NAME	SCRATCH RESISTANCE	ABRASION RESISTANCE	EARLY HARDNESS DEVELOPMENT	CHEMICAL RESISTANCE	BLACK HEEL MARK RESISTANCE	FILM HARDNESS	EU SELECT ¹
ACRYLIC-BASED	CarboSet® 420	■	■	■	■	■	■	•
	CarboSet® AMO 400	■	■	■	■	■	■	•
	CarboSet® 2968	■	■	■	■	■	■	•
	CarboSet® 7722	■	■	■	■	■	■	•
	CarboSet® 7733	■	■	■	■	■	■	•
	CarboSet® CR-728	■	■	■	■	■	■	•
PU-BASED	Aptalon™ W8030	■	■	■	■	■	■	•
	Aptalon™ W8060	■	■	■	■	■	■	•
	Aptalon™ 8080HS	■	■	■	■	■	■	•
	Sancure™ 825	■	■	■	■	■	■	•
	Sancure™ 970	■	■	■	■	■	■	•
	Sancure™ 20041	■	■	■	■	■	■	•
	Sancure™ OM-933	■	■	■	■	■	■	•
	Sancure™ OM-945	■	■	■	■	■	■	•
	TurboSet™ 2027	■	■	■	■	■	■	•
TurboSet™ Ultra Eco	■	■	■	■	■	■	•	
TurboSet™ Ultra Pro	■	■	■	■	■	■	•	

RESINS FOR OEM APPLICATIONS

	PRODUCT NAME	SCRATCH RESISTANCE	ABRASION RESISTANCE	EARLY HARDNESS DEVELOPMENT	CHEMICAL RESISTANCE	BLACK HEEL MARK RESISTANCE	FILM HARDNESS	EU SELECT
ACRYLIC-BASED	CarboSet® 2968	■	■	■	■	■	■	•
	CarboSet® AMO 400	■	■	■	■	■	■	•
	CarboSet® CR-726	■	■	■	■	■	■	•
	CarboSet® CR-735	■	■	■	■	■	■	•
PU-BASED	Sancure™ 825	■	■	■	■	■	■	•
	Sancure™ AU-4010	■	■	■	■	■	■	•

RESINS FOR STAINS

PRODUCT NAME	LOW VOC	OPEN TIME	DRY TIME	PENETRATION	COLOR FASTNESS	EU SELECT
CarboSet® 510	■	■	■	■	■	•
CarboSet® AMO 400	■	■	■	■	■	•

¹EU Select means resin does not have NMP, NEP, or APEO contained in the recipe nor used in the process. They are targeted for applications in Europe but also available for sale in other countries.

WOOD & GENERAL INDUSTRIAL COATINGS – WATER-BASED

PRODUCT NAME	SCRATCH RESISTANCE	MATTING	SOFT FEEL/SURFACE SLIP	ANTI-BURNISHING	ANTI-BLOCKING
Aquaslip™ 677	■	■	■	■	■
Aquaslip™ 682	■	■	■	■	■
Lanco™ 1380 F	■	■	■	■	■
Lanco™ PEW 1555 N	■	■	■	■	■
Lanco™ 1560 LF	■	■	■	■	■
Lanco™ 1588 LF	■	■	■	■	■
Lanco™ TFW 1765 NC	■	■	■	■	■
Lanco™ Glidd 6067	■	■	■	■	■
Lanco™ Glidd 6148	■	■	■	■	■
Lanco™ Glidd 9530C	■	■	■	■	■
Lanco™ LiquiMatt 6375 AF	■	■	■	■	■

WOOD & GENERAL INDUSTRIAL METAL COATINGS – SOLVENT-BASED

PRODUCT NAME	SCRATCH RESISTANCE	MATTING	SOFT FEEL/SURFACE SLIP	ANTI-BURNISHING
Lanco™ 1370 LF	■	■	■	■
Lanco™ 1380 F	■	■	■	■
Lanco™ 1400 SF	■	■	■	■
Lanco™ 1588 LF	■	■	■	■
Lanco™ A 1602	■	■	■	■
Lanco™ TF 1720C	■	■	■	■
Lanco™ TF 1788C	■	■	■	■
Lanco™ Antimar 450 C	■	■	■	■
Lanco™ Glidd 3520	■	■	■	■
Lanco™ Liquimatt 5730	■	■	■	■

UV CURABLE COATINGS & INKS

PRODUCT NAME	SCRATCH RESISTANCE	MATTING	SOFT FEEL/SURFACE SLIP	ABRASION RESISTANCE	IMPACT ON VISCOSITY
Carbocure® 7000	■	■	■	■	Diluting Effect
Lanco™ 1380 F	■	■	■	■	■
Lanco™ 1394 F	■	■	■	■	■
Lanco™ 1394 LF	■	■	■	■	■
Lanco™ TF 1725	■	■	■	■	■
Lanco™ TF 1788	■	■	■	■	■

LOW = ■■■■ HIGH = ■■■■

All Lubrizol surface modifiers shown are available for sale in the EU as well as other regions. Please check the SDS for the most up-to-date information.



PERFORMANCE GUIDE TO LUBRIZOL HYPERDISPERSANTS

HYPERDISPERSANTS FOR WATER-BASED WOOD COATINGS

PRODUCT NAME	INORGANIC PIGMENTS				ORGANIC PIGMENTS				RESIN-FREE MILLING				MILLING RESIN CONTAINING				PIGMENT LOADING MILLBASE VISCOSITY			
Solsperse™ 27000	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Solsperse™ 40000	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Solsperse™ 45000	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Solsperse™ 46000	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Solsperse™ W100	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Solsperse™ W320	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Solsperse™ WV400	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

HYPERDISPERSANTS FOR SOLVENT-BASED WOOD COATINGS

PRODUCT NAME	INORGANIC PIGMENTS				ORGANIC PIGMENTS				MULTI-COMPATIBILITY				PIGMENT LOADING MILLBASE VISCOSITY			
Solsperse™ 32500	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Solsperse™ 36600	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Solsperse™ 38500	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Solsperse™ 45000	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Solsperse™ 85000	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Solsperse™ M385	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Solsperse™ M386	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
Solsperse™ M388	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■

□ □ □ □ □ = LOW
 ■ ■ ■ ■ ■ = HIGH

All Lubrizol hyperdispersants shown are available for sale in the EU as well as other regions. Please check the SDS for the most up-to-date information.

HYPERDISPERSANTS FOR EB/UV/EB CURED WOOD COATINGS

PRODUCT NAME	INORGANIC PIGMENTS				ORGANIC PIGMENTS				SILICA MATTING AGENT				SOLVENT-FREE			
Solsperse™ 36000	■	■	■	■	■	■	■	■	■	■	■	■	●	●	●	●
Solsperse™ 39000	■	■	■	■	■	■	■	■	■	■	■	■	●	●	●	●
Solsperse™ 41000	■	■	■	■	■	■	■	■	■	■	■	■	●	●	●	●
Solsperse™ 71000	■	■	■	■	■	■	■	■	■	■	■	■	●	●	●	●
Solsperse™ 75000	■	■	■	■	■	■	■	■	■	■	■	■	●	●	●	●
Solsperse™ 79000	■	■	■	■	■	■	■	■	■	■	■	■	●	●	●	●
Solsperse™ 85000	■	■	■	■	■	■	■	■	■	■	■	■	●	●	●	●

With certain organic pigments, it may be advantageous to include the use of a Solsperse synergist in combination with the polymeric Solsperse hyperdispersant. The synergist helps to improve the interaction between the hyperdispersant and the surface of certain organic pigments (e.g. phthalocyanine blues, greens) and carbon black pigments. The synergist hyperdispersants include:

- SOLSPERSE™ 5000S Synergist** – for use on organic blues/greens and carbon black pigments in solvent-based systems
- SOLSPERSE™ 12000S Synergist** – for use on organic blues/greens and carbon black pigments in water- and alcohol-based systems
- SOLSPERSE™ 22000 Synergist** – for use on certain organic reds and yellow pigments in solvent based systems

Recommended Hyperdispersant : Synergist ratios

- 4 : 1 for carbon black pigment
- 4 : 1 for organic blue/green pigment
- 9 : 1 for organic red/yellow pigment



RESINS

Our resins for water-borne systems deliver the core properties to help our customers be differentiated in the marketplace-enabling wood coatings to be more durable, simple to use, and environmentally conscious.

FOR DIY/CONTRACTOR APPLIED COATINGS

		USES				BENEFITS				TYPICAL PHYSICAL PROPERTIES						
PRODUCT NAME	PRODUCT TYPE	FLOORS	DECKS	FURNITURE, FIXTURES AND SMALL PROJECTS	INTERIORS TRIMS & PRIMERS	PRIMARY BENEFIT	SECONDARY BENEFIT	APEO-FREE	NMP-FREE	LOW VOC	MFFT (°C)	% WEIGHT SOLIDS	% VOLUME SOLIDS	pH	SPECIFIC GRAVITY	VISCOSITY cP
Aptalon™ 8080HS	Self Crosslinking High Solids Polyamide Polyurethane	●		●		Thicker film build per coat, reducing the number of coats required	Hardness, chemical & scratch resistance	●	●			50	50	7.0-8.0	1.05	<500
Carboset® 420	Oil Modified Copolymer			●		Renewable resin providing excellent water and chemical resistance; Exterior durability; Low VOC ¹ capable	Self-crosslinking for excellent wear	●	●	ultra low	<5	40	37	7.4-8.9	1.06	<250
Carboset® AMO 400	Acrylic Oil Modified Copolymer	●	●	●		High renewable resin providing high melt temperature for high speed sanding; Low VOC ¹ capable	Improved toughness; black heel mark and abrasion resistance over acrylic polymer	●	●	ultra low	12	40	37.5	7.5-8.5	1.05	<500
Carboset® 2968	Self-Crosslinking Acrylic Emulsion	●		●		Early hardness and sandability	Chemical resistance	●	●		57	42	39	7.5-9.5	1.04	<600
Carboset® 7722	Acrylic Emulsion				●	Scrub resistance in all sheens	Adhesion and stain blocking	●	●	low	<5	50	48	8.4-9.2	1.06	<800
Carboset® 7733	Acrylic Emulsion				●	Scrub resistance in high gloss	Exterior durability	●	●	low	21	50	47	8.4-9.2	1.06	<500
Carboset® CR-728	Self-Crosslinking Acrylic Emulsion	●		●		Chemical and stain resistance	Mar resistance	●	●		45	42	40	8.4-9.2	1.05	20-80
Carboset® 2951	Self-Crosslinking Acrylic Emulsion	●	●	●	●	Rapid Hardness Development	Chemical resistance	●	●	low	<5		44	8.0-9.2	1.01	30-200
Sancure™ 825	Polyurethane Dispersion	●		●		Chemical and stain resistance	Toughness	●				34	31	8.5 max	1.05	<425
Sancure™ 970	Polyurethane Composite	●		●		Hardness, chemical resistance	Adhesion to multiple substrates; crosslinkable	●	●		50	42	41	8.5	1.06	300-700
Sancure™ 20041	Polyurethane Dispersion	●		●		Mar, scuff and wear resistance	Wide formulating latitude; Crosslinkable	●	●			34	33	7.5-9.0	1.05	<200
Sancure™ AU-4010	Polyurethane Acrylic Blend	●				Rapid hardness development	Mar, scuff and wear resistance				50	36	35	8.0	1.05	75
Sancure™ OM-933	Oil Modified Urethane Dispersion	●	●	●		Wear resistance	Exterior durability	●			10	33	31	7.5-9.0	1.05	<250
Sancure™ OM-945	Oil Modified Urethane Dispersion	●	●	●		Higher solids content	Exterior durability; version of OM933	●			10	45	43	7.5-9.0	1.06	<1000
Turboset™ 2027	Self-Crosslinking Polyurethane Composite			●		Chemical and stain resistance	Abrasion resistance	●	●	low	22	40	35	8.2-9.2	1.06	<500
Turboset™ Ultra Eco	Self-Crosslinking Polyurethane Composite	●		●		Formulates ultra low VOC ¹ finishes and maintains exceptional overall performance; Can be formulated to <50 g/L VOC U.S. (<25 g/L EU)	Black heel mark resistance, abrasion resistance, chemical resistance and adhesion	●	●	ultra low	<5	36	36	7.5-9.0	1.04	<400
Turboset™ Ultra Pro	Self-Crosslinking Urethane Dispersion	●		●		Black heel mark resistance, hardness, excellent for sports floors	Chemical resistance	●		low	5	37	36	7.5-9.0	1.06	<250

FOR OEM/FACTORY APPLIED COATINGS

		USES				BENEFITS				TYPICAL PHYSICAL PROPERTIES						
PRODUCT NAME	PRODUCT TYPE	FURNITURE	CABINETS	WINDOWS AND DOORS	FLOORS	PRIMARY BENEFIT	SECONDARY BENEFIT	APEO-FREE	NMP-FREE	LOW VOC	MFFT (°C)	% WEIGHT SOLIDS	% VOLUME SOLIDS	pH	SPECIFIC GRAVITY	VISCOSITY cP
Carboset® 2968	Self-Crosslinking Acrylic Emulsion	●	●			Early hardness and sandability	Chemical resistance	●	●		57	42	39	7.5-8.5	1.05	<400
Carboset® AMO 400	Acrylic Modified Oil Copolymer	●	●	●	●	Low VOC ² ; high renewable content resin with long open time and fast through dry time	High melt temperature for high speed sanding	●	●	●	12	40	37.5	7.5-8.5	1.05	<500
Carboset® CR-726	Self-Crosslinking Acrylic Emulsion	●	●	●	●	Hardness	Low VOC ² capable	●	●		35	42	41	7.9-8.6	1.04	50-60
Carboset® CR-735	Self-Crosslinking Acrylic Emulsion	●	●			Chemical resistance	High gloss alkyd-like appearance	●	●		34	41.5	40.7	8-9	1.03	<150
Sancure™ 825	Polyurethane Dispersion			●		Chemical and stain resistance	High gloss	●				34	31	8.5 max	1.05	<425
Sancure™ 843C	Polyurethane Dispersion	●				Chemical resistance, particularly alcohol	Hard but flexible	●				32	28	8.0	1.05	<400
Sancure™ AU-4010	Urethane Acrylic Dispersion	●		●	●	Rapid hardness development	Mar, scuff and wear resistance				0	36	35	8.0	1.05	75

FOR STAINS

Carboset® 510	Acrylic Dispersion	●	●			Low VOC ¹	Excellent open time for wiping stains in small projects	●	●	●	3	40	36	7.0	1.07	<1000
Carboset® AMO 400	Acrylic Modified Oil Copolymer	●	●	●	●	Excellent open time for stains for large surfaces	Fast drying through time for quick recovery	●	●	●	12	40	37.5	7.5-8.5	1.05	<500

¹Ultra Low VOC systems are defined as systems with <50 g/l via US EPA Method 24 <25 g/l EU method)

²Low VOC systems are defined as systems with <140 g/l via US EPA Method 24 <75 g/l EU Method)

SURFACE MODIFIERS

Our selection of Lanco™, Carbocure™ and Aquaslip™ surface modifiers deliver a balanced mix of performance benefits to help coatings protect wood surfaces. We can tailor wood coating formulations to offer your customers the surface feel, durability and gloss or matte finish desired of high quality products.

PRODUCT NAME	PRODUCT TYPE	SYSTEMS			PRIMARY BENEFIT	SECONDARY BENEFIT	TYPICAL PHYSICAL PROPERTIES					
		WATER-BASED	SOLVENT-BASED	UV			DV ₅₀ μm	DV ₉₀ μm	DENSITY (MM OR g/cm ³) @ 20 °C (68 °F)	MELTING POINT °C	SOLVENT	% SOLIDS
Aquaslip™ 677	Modified Paraffin Wax Emulsion	●			Improved slip and anti-blocking	Improved water resistance			0.95	64	Water	54-56
Aquaslip™ 682	Oxidized Polyethylene Wax Emulsion	●			Scratch and abrasion resistance	Anti-blocking			1		Water	40
Carbocure™ 7000	Matting Agent			●	Uniform matting; smooth feel	Anti-burnishing; low viscosity	≤6	≤12	0.92			95+
Lanco™ 1370 LF	Modified Polyethylene Wax		●		Matting efficiency	Good burnishing resistance	≤9	≤18	0.93	150		100
Lanco™ 1380 F	Proprietary Wax	●	●		Matting efficiency toughness	Burnishing resistance	≤9	≤22	0.95	150		100
Lanco™ 1394 F / LF	Polypropylene Wax		●	●	Scratch and mar resistance	Smooth feel; Matting efficiency	≤9	≤18	0.90	140		100
Lanco™ 1400 SF	Modified Synthetic Wax	●	●	●	Smooth surface finish, improved slip	Scratch and metal mark resistance	≤6	≤14	0.97	140		100
Lanco™ 1410 LF	Modified Synthetic Wax	●	●	●	Scratch and abrasion resistance	Smooth surface feel	≤9	≤19	0.97	140		100
Lanco™ 1552 F	Polar Modified Polyethylene Wax	●			Scratch and abrasion resistance	Uniform matting	≤10	≤24	0.96	111		100
Lanco™ 1560 LF	Polar Modified Polyolefin Wax	●			Anti-blocking	Scratch resistance	≤9	≤22	0.96	95		100
Lanco™ 1580 LF	Polyethylene Wax	●	●	●	Surface hardness	Uniform matting	≤9	≤18	0.97	125		100
Lanco™ 1588 LF	Polyolefin Wax	●	●		Surface protection	Feel and matting	≤9	≤18	0.96	105		100
Lanco™ A 1602	Fatty Acid Amide Wax		●		Surface touch	Sandability	≤9	≤22	0.99	142		100
Lanco™ Antimar 450C	Modified Silicone Wax Dispersion		●		Improved slip with mar resistance	Improved leveling			0.93		Butyl Acetate	50
Lanco™ Glidd 4370	Proprietary Wax Dispersion		●		Water beading	Water resistance and repellency			0.85		Aliphatic Hydrocarbon	60
Lanco™ Glidd 6067	Polyethylene Wax Dispersion	●			High gloss retention	Scratch resistance	≤6		0.98	105	Water	43
Lanco™ Glidd 6148	Polyolefin Wax Dispersion	●			Scratch resistance	Matting efficiency			0.96	105	Water	53
Lanco™ Glidd 6546	Proprietary Wax Dispersion	●			High transparency	Scratch resistance; soft scratch	≤10		1.10		Water	63
Lanco™ Glidd 9530C	PTFE-Modified Polyethylene Dispersion	●			Scratch resistance	Metal marking resistance	≤5.5	≤14	1.00	102	Water	30
Lanco™ Liquimatt 6375 AF	Modified Silica Wax Dispersion				Amine-free, efficient gloss control	Improved mar resistance	≤7.5	≤15.5	1.10		Water	50
Lanco™ PEW 1555 N	Polar Modified Polyethylene Wax	●			Uniform matting	Scratch and abrasion resistance	≤9	≤22	0.99	105		100
Lanco™ TF 1720C	PTFE-Modified PE		●	●	Abrasion resistance	Improved slip	≤8	≤18	1.02	125		100
Lanco™ TF 1788C	PTFE-Modified Polyethylene Wax	●	●	●	Scratch and abrasion resistance	Slip and metal marking resistance	≤6	≤14	1.04	102		100

HYPERDISPERSANTS

Our industry-leading Solsperse™ hyperdispersants help enhance the natural beauty of wood by improving pigment dispersion and stability. We offer a range of hyperdispersants specifically designed to be compatible with water-based, solvent-based and UV coatings.

PRODUCT NAME	PRIMARY BENEFIT	SECONDARY BENEFIT	PIGMENT TYPE	TYPICAL PHYSICAL PROPERTIES			
				PHYSICAL FORM	SOLVENT	% ACTIVE INGREDIENT	SUGGESTED STARTING DOSAGE (mg/m ²)
SUITABLE FOR WATER-BASED							
Humectant™ GRB3	Offers improved humectancy over propylene glycol and can therefore be used at lower dosage levels	VOC-free	All pigments and fillers	Liquid			5% during dispersion, 2% when added to the final coating
Solsperse™ 27000	Resin-containing dispersion and resin-free grind	Low foaming	Organic, inorganic, carbon black	Liquid		100	2.0
Solsperse™ 40000	Viscosity stability of dispersion	Economic dispersant for TiO ₂ and fillers	Inorganic, silica	Liquid	Water	84	2.0
Solsperse™ 44000	High pigment loadings	Early water resistance	Organic, inorganic, carbon black	Liquid	Water	50	2.5
Solsperse™ 46000	Works well with most pigments in water, particularly with difficult-to-disperse organics	Early water resistance	All pigments and fillers	Liquid	Water	50	2.5
Solsperse™ W100	Wide compatibility on range of pigments	Lower dosage requirement vs competitive dispersants	All pigments and fillers	Liquid	Water	40	1.7
Solsperse™ W320	Effective wetting and stability on transparent iron oxide pigments	Fast milling, capability of reduced cycle time	Transparent iron oxides & inorganic pigments	Liquid	Water	40	20-25% AOWP %
Solsperse™ WV400	Excellent dispersion of challenging high-performance organic pigments	Effective milling and storage stability over time	Organic, carbon black, inorganic	Liquid	Water	40	2.5
SUITABLE FOR SOLVENT-BASED							
Solsperse™ 32500	Higher gloss and pigment strength	Improved flow and lower mill base viscosity	Organic, carbon black, untreated silica	Waxy solid		100	2.0
Solsperse™ 36600	Improved rheology and stability	Particularly effective for inorganics	Inorganic	Liquid	Solvesso 100	50	2.0
Solsperse™ 38500	For multimedia colorants in esters and ketones, wide compatibility with other solvents	Tinter stability	Organic	Liquid	MPA	40	2.5
Solsperse™ 45000*	Lower viscosity in combination with inorganic pigments and fillers. Better dispersion quality in the millbase. Reproducible tint strength	Wider colorant compatibility	Inorganic including fillers	Liquid		100	2.0
Solsperse™ M388	Achieves maximum transparency	Broad resin compatibility with wide range of solvents	Organic	Liquid	Methoxy Propyl Acetate	50	2.0
Solsperse™ 84500	Fast and effective dispersion of inorganic pigments in coatings	Good opacity and film hardness		Liquid	Methoxy Propyl Acetate	50	1-4% AOWP %
Solsperse™ M385	Good affinity for organic pigments	Broad resin system compatibility	Organic	Liquid	Methoxy Propyl Acetate	50	2.5
SUITABLE FOR UV							
Solsperse™ 75000	Higher gloss and pigment strength	Improved flow and lower mill base viscosity	Organic, carbon black, untreated silica	Waxy solid		100	2.0
Solsperse™ 36000	Non-yellowing of white coatings	Higher gloss and opacity	Inorganic, including silica	Waxy solid	n-Butyl Acetate	100	2.0
Solsperse™ 39000	Dispersion and stability in UV coatings	Easier handling	Organic, carbon black	Liquid		100	2.0
Solsperse™ 41000	Prevents gellation during dispersion	Increased silica matting agent loadings	Inorganic, silica	Liquid		100	2.5
Solsperse™ 71000	Lower gloss levels and higher silica loadings	Improved pigment and matting agent concentration	Organic, silica	Liquid		100	2.5
Solsperse™ 79000*	Improved fire retardant properties through dispersion flame retardant pigments in radiation-cured coatings	Improved film clarity and rheology	Flame retardant pigments, Inorganics	Liquid		100	4.0
Solsperse™ 85000	High pigment loading at low viscosity	High tint strength and opacity	TiO ₂ , oxide pigments	Liquid	-	100	2.0
Solsperse™ M386	Good affinity for organic pigments	Broad resin system compatibility	Organic	Liquid	Solvesso 100	50	2.5

*Also suitable for water-based



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