

# RESINS PRODUCT GUIDE FOR PAINTS AND COATINGS



**Performance Coatings** 









#### **Industry Knowledge**

With an experienced team of coating, ink, and composite specialists, Lubrizol is dedicated to close collaboration with customers and industry experts to gain and share industry knowledge, insights, and solutions.

#### **Technical Support**

Lubrizol staffs fully-equipped labs in Europe, North America, Latin America and Asia to bring regional formulation capabilities and support to customers, wherever they are in the world.

### Quality

From product development to production and distribution, we carefully control all processes to ensure the quality of our products and to enable customers to gain a competitive edge.

#### **Innovative Solutions**

Lubrizol invests in market-driven innovation to address relevant and timely coatings challenges and opportunities for customers.

### **On-Time Delivery**

Product availability and on-time delivery are vital to any business. To answer these needs, Lubrizol has a worldwide network of distribution points. This comprehensive network provides immediate access to customer service.





### **Wood Coatings**

Lubrizol has the key ingredients to improve many wood coating formulations. With a wide variety of resin technologies for residential and commercial applications, we help formulators meet performance and aesthetic preferences while maintaining regulatory requirements and sustainability targets.

#### **Building and Construction Coatings**

Lubrizol specialty chemical solutions deliver value for coatings manufacturers, architects, builders, and building owners. Our advanced portfolio of resins and polymers are commonly used in masonry coating, concrete coating, elastomeric coating, liquid roof coating, mortar modification and other building and construction coating products to beautify and strengthen a diverse range of interior and exterior surfaces. With advanced Lubrizol technologies, formulators can improve coating performance and production efficiency. Contractors and architects can shorten construction schedules and reduce labor costs. Property owners will enjoy long-lasting, visually appealing surfaces.

#### **Industrial Coatings**

Lubrizol innovates technologies for a variety of industrial metal coating applications. Our resin technologies enhance key performance attributes, imparting superior corrosion resistance, scratch and mar resistance and improved overall performance. Lubrizol offers primer, topcoat and direct-to-metal resin technologies that offer a superior balance of durability and gloss.

#### **Transportation Coatings**

Lubrizol innovates cutting-edge chemical solutions for automotive OEM and vehicle refinish applications, such as interior, exterior and underbody coating technologies. We address the challenges that face coating manufacturers, automotive manufacturers and consumers, providing customized solutions and value-added, long-lasting coatings. Our technologies help formulators meet the functionality needs of the most demanding transportation coatings.

### **Wood Coating Technologies**

### Acrylic Technologies for Wood Coatings

Lubrizol Product	Polymer Type	Key Benefits			
Carboset® 2951	Self-Crosslinking Acrylic Copolymer Emulsion	Low VOC, exceptional chemical and block resistance, early hardness and external durability also suitable for use in eco-label paints and coatings.			
Carboset® 2968	Self-Crosslinking Acrylic Emulsion	Early hardness, sandability with superior chemical resistance; blend vehicle with polyurethanes.			
Carboset® 7722	Acrylic Emulsion	Low VOC, adhesion, stain blocking and scrub resistance in all sheens.			
Carboset® 7733	Acrylic Emulsion	Low VOC, exterior durability and scrub resistance in high gloss formulations			
Carboset® AMO 400	Acrylic Oil Modified Copolymer	Renewable, low VOC, high melt temperature for high speed sanding, improved toughness, black heel mark and abrasion resistance; blend vehicle with other resins (47% bio-based content).			
Carboset® CR 726	Self-Crosslinking Acrylic Emulsion	Early hardness development and chemical resistance.			
Carboset® CR 7181	Self-Crosslinking Acrylic Emulsion	Hard, excellent chemical resistance, air and forced dry compatible; adhesion to wood, metal and plastic.			
Carboset® 3142	Styrene Acrylic Emulsion	Low VOC, high gloss, exceptional block and chemical resistance, multi-substrate adhesion, exterior durability; alkyd-like application.			
Carboset® CA 7147	Acrylic Emulsion	High gloss, fine particle size, fast drying, non-yellowing, water, weather, and dirt pick-up resistant.			

# Polyurethane Dispersion Technologies for Wood Coatings

Lubrizol Product	Polymer Type	Key Benefits		
Aptalon™ W8060	Self-Crosslinking Polyurethane Dispersion - Polyamide  Renewable, superior chemical resistance, balance of hardness, abrasion and scratch resistance (35% bio-based content).			
Aptalon™ W8030	Self-Matting Polyurethane Dispersion - Polyamide	Low gloss without matting agents and excellent abrasion resistance.		
Sancure™ 970	Polyurethane Dispersion - Polyester	Adhesion to multiple substrates, excellent hardness and chemical resistance, crosslinkable.		
Turboset™ 2027	Self-Crosslinking Polyurethane Dispersion - Polyester	Excellent chemical and stain resistance.		
Turboset™ Ultra Eco	Self-Crosslinking Polyurethane Dispersion - Polyether	Low VOC, robust black heel mark resistance, excellent hardness and chemical resistance.		
Turboset™ 5000HS	Self-Crosslinking Polyurethane Dispersion - Polyether	High solids (50%), TEA-free and low VOC. Excellent hardness and chemical resistance.		
Sancure™ AU 4050	Self-Crosslinking Acrylic/Polyester Polyurethane Hybrid Dispersion	Non-yellowing, excellent chemical, abrasion and scuff resistance.		
Sancure™ 942	Polyurethane Dispersion - Polyester	Crosslinkable polyurethane, excellent balance of properties, high durability.		

			Applica	ations								
Lubrizol Product	Floors	Cabinets	Furniture	Windows and Doors	Interior Trims and Primers		MFFT (°C)	% Weight Solids	% Volume Solids	рН	Viscosity (CPS)	Specific Gravity
Carboset® 2951		•	•	•	•	•	<5	44	43	8	30 - 250	1.01
Carboset® 2968	•	•	•				57	41.5	39	7.5	10 - 300	1.04
Carboset® 7722					•		<5	50	48	8.4	40 - 800	1.06
Carboset® 7733					•		21	50	46	8.4	40 - 800	1.06
Carboset® AMO 400		•	•	•	•	•	12	40	37.5	7.5	<500	1.06
Carboset® CR 726	•	•	•	•			35	42	41	8	50 - 600	1.05
Carboset® CR 7181		•	•				90	42	39.1	9	50	1.06
Carboset® 3142			•	•	•		7	41	40	7	10-500	1.02
Carboset® CA 7147					•	•	6	46	45	8.5	300 - 1200	1.01

		Applic	ations							
Lubrizol Product	Floors	Cabinets	Furniture	Windows and Doors	MFFT (°C)	% Weight Solids	% Volume Solids	рН	Viscosity (CPS)	Specific Gravity
Aptalon™ W8060	•		•		59	36	33	7.5	<500	1.05
Aptalon™ W8030	•	•	•		61	35	34.2	7.5	<500	1.04
Sancure™ 970	•		•	•	50	42	41	8	<500	1.06
Turboset™ 2027	•		•		22.5	40	35	8	<500	1.07
Turboset™ Ultra Eco	•		•		<5	36	35	7.5	<400	1.04
Turboset™ 5000HS	•		•		<5	50	48	8	<400	1.06
Sancure <sup>™</sup> AU 4050	•		•	•	15	36	32	8	<125	1.05
Sancure™ 942	•	•	•	•		42	30	8	<500	1.0

### **Building and Construction Coating Technologies**

# Acrylic Technologies for Building and Construction Coatings

Lubrizol Product	Polymer Type	Key Benefits
Carboset® 2951	Self-Crosslinking Acrylic Copolymer Emulsion	Low VOC, exceptional chemical and block resistance, early hardness.
Carboset® 2968	Self-Crosslinking Acrylic Emulsion	Robust water resistance, high hardness, outstanding gloss/wet look, excellent chemical and mar resistance.
Carboset® 7722	Acrylic Emulsion	Low VOC, good scrub resistance, early block and print resistance, pigmentable.
Carboset® 7733	Acrylic Emulsion	Low VOC, high gloss, inherent stain removal and washability, early block resistance and great flow and leveling.
Carboset® AE 960*	Acrylic Emulsion	Low VOC, excellent dirt pick-up, balance of elongation and tensile strength, outstanding water resistance, weathering and crack-bridging; suitable for ASTM D6083 compliant paints and coatings.
Carboset® CA 7147	Acrylic Emulsion	Low VOC, small particle size, alkali resistance, high water vapor permeability and low CO <sub>2</sub> permeability.
Carboset® CA 7107	Acrylic Emulsion	Low VOC, excellent water, alkali and weathering resistance.
Carboset® CA 7100RC	Styrene Acrylic Emulsion	Low VOC, balance of mechanical properties, excellent adhesion to most masonry substrates at high PVC loading, water and alkali resistance.
Carboset® CA 7160RC	Styrene Acrylic Emulsion	Low VOC, alkali resistant, excellent adhesion to most masonry substrates at high PVC loading.
Carboset® CA 7120RC	Styrene Acrylic Emulsion	Low VOC, excellent water, alkali and dirt pick-up resistance, balance of elasticity and tensile strength. Great adhesion to most masonry substrates including terracotta tiles.
Carboset® CR 7185	Acrylic Emulsion	Excellent water retention, concrete curing properties and high alkali resistance.
Carboset® CA 600*	Self-crosslinking Acrylic Emulsion	Early water resistance, fast drying, great substrate penetration, alkaline, blushing, efflorescence, chemical resistance, non-yellowing and exterior exposure.
Carboset® CA 1009*	Acrylic-Polyurethane Polymer	Low VOC, minimal water uptake and capillary absorption, superior water and bituman bleed through resistance, excellent exterior durability and heat stable.
Carboset® RPT 2000A	Acrylic Copolymer Emulsion	Low VOC, superior adhesion to wide range of substrates and great bitumen bleed through resistance.
Carboset® RPT 3030	Acrylic Emulsion	Low VOC, excellent low temperature elasticity, ASTM D6083 compliance capable, and adhesion to EPDM.
Carboset® SA 850*	Acrylic Copolymer Emulsion	Low VOC, robust crack-bridging performance and weatherability, resistant to chalking, fading, and water penetration, excellent dirt pick-up, efflorescence, alkali properties.
Carboset® 3142	Styrene Acrylic Emulsion	Low VOC, high gloss coatings, exterior durability, good block and stain resistance, multi-substrate adhesion; alkyd-like application.
Carboset® PL 958*	Acrylic Emulsion	Low VOC, high tensile strength for clear and pigmented temporary protection and excellent chemical resistance. Peelable coatings.
Carbotac® 1811	Acrylic Emulsion	Low VOC, long open time polymer for bonding bridge masonry applications.

<sup>\*</sup>Produced in multiple facilities; product name may vary

	ı	Application	s							
Lubrizol Product	Liquid Roof	Vertical Masonry	Horizontal Masonry	MFFT (°C)	TG (°C)	% Weight Solids	% Volume Solids	рН	Viscosity (CPS)	Specific Gravity
Carboset® 2951		•	•	<5		44	43	8	30 - 250	1.01
Carboset® 2968			•	57		41.5	39	7.5	10 - 300	1.04
Carboset® 7722		•	•	<5		50	48	8.4	40 - 800	1.06
Carboset® 7733		•	•	21		50	46	8.4	40 - 800	1.06
Carboset® AE 960*	•	•		<5	-25	56	55	8.2	<2000	1.02
Carboset® CA 7147		•	•	6		47	46	8.8	300-1200	1.01
Carboset® CA 7107	•	•		<5	8	50	47	8.5	9000	1.05
Carboset® CA 7100RC	•	•		<5	-10	50	49	8.3	8.000-11000	1.01
Carboset® CA 7160RC		•	•	21	18	50	49	8.3	2500-5000	1.01
Carboset® CA 7120RC	•	•		<5	0	48	47	8.3	8000-12500	1.01
Carboset® CR 7185			•	44		42	41	8.5	10-300	1.03
Carboset® CA 600*			•	35	55	42	41	8.3	41	1.06
Carboset® CA 1009*	•	•		2	5	55	53	8	150 - 800	1.1
Carboset® RPT 2000A	•			<5	10	55	53	8.5	100 - 15000	1.04
Carboset® RPT 3030	•	•		<5	-35	55	53	8	200-1200	1.06
Carboset® SA 850*	•	•		<5	10	55	53	8.5	100 - 15000	1.04
Carboset® 3142		•		7		41	40	7	10-500	1.02
Carboset® PL 958*				<5		46.8	43	8	40-125	1.07
Carbotac® 1811				<5	-43	55	53	3.5	120	1.03

### **Building and Construction Coating Technologies**

### Polyurethane Dispersion Technologies for Building and Construction Coatings

Lubrizol Product	Polymer Type	Key Benefits
Lubrizor Product	Polymer Type	key beliefits
Aptalon™ W8030	Self-Matting Polyurethane Dispersion - Polyamide	Low gloss without matting agents and excellent abrasion resistance.
Aptalon™ W8060	Self-Crosslinking Polyurethane Dispersion - Polyamide	Renewable, superior chemical resistance, balance of hardness and abrasion resistance and scratch resistance (35% bio-based content).
Aptalon™ M8120	Self-Crosslinking Polyurethane Dispersion - Polyamide	Renewable. Balance of hardness and abrasion resistance, superior chemical and hydrolytic resistance (35% bio-based content).
Sancure <sup>™</sup> 20041	Polyurethane Dispersion - Polyester	Cosolvent-free, excellent hardness, compatible with acrylics; crosslinkable.
Sancure™ 861	Polyurethane Dispersion - Polyether	Low VOC, cosolvent-free, hydrolytic and aging stability, alkali, abrasion and chemical resistance.
Sancure <sup>™</sup> 20025F	Aliphatic Polyurethane Dispersion - Polyester	Low VOC, provides enhanced durability when blended with acrylics.
Sancure <sup>™</sup> 942	Polyurethane Dispersion - Polyester	Chemical and abrasion resistance, crosslinkable if necessary to boost performance.
Sancure™ 970	High Solids Polyurethane Dispersion - Polyester	Chemical and abrasion resistance; crosslinkable.
Sancure™ AU4050	Self-Crosslinking Acrylic/ Polyester Polyurethane Hybrid Dispersion	Non-yellowing, excellent chemical, abrasion and scuff resistance.
Turboset™ Ultra Eco	Self-Crosslinking Polyurethane Dispersion - Polyether	Low VOC, superior black heel mark resistance, excellent hardness and chemical resistance. Excellent alkali and hydrolysis resistance
Turboset™ 2027	Self-Crosslinking Polyurethane Dispersion - Polyester	Cosolvent-free, excellent chemical resistance and durability.
Turboset™ 5000HS	High Solids, Self-Crosslinking Polyurethane Dispersion - Polyether	Low VOC, TEA-free and high solids, reduce the number of layers applied while maintaining superior chemical and abrasion resistance.

### Solution Acrylic Technologies for Building and Construction Coatings

<b>Lubrizol Product</b>	Polymer Type	Key Benefits
Doresco® L91-1X	Solvent-borne Acrylic Polymer in Xylene	Hard solvent-borne acrylic designed for general purpose concrete coating.
Doresco® M6A	Solvent-borne Thermoplastic Acrylic in Xylene	Exterior durability and adhesion to multiple substrates.
Doresco® T5T60	Solvent-borne Thermoplastic Acrylic in Toluene	Quick drying road-marking for medium traffic areas; internally plasticized version of Doresco® T6T.

Lubrizol Product	Liquid Roof	Vertical Masonry	Horizontal Masonry	MFFT (°C)	% Weight Solids	% Volume Solids	рН	Viscosity (CPS)	Specific Gravity
Aptalon™ W8030			•	61	35	33	8	<500	1.03
Aptalon™ W8060			•	59	36	33	7.5	<500	1.05
Aptalon™ M8120			•	50	37	34	8.5	<500	1.09
Sancure™ 20041	•		•	22	34	30	8	150	1.05
Sancure <sup>™</sup> 861	•	•		<5	40	39	7.5	<90	1.02
Sancure™ 20025F	•	•		<5	48	45	8	<500	1.05
Sancure <sup>™</sup> 942			•	26	42	30	8	<500	1.0
Sancure™ 970			•	50	42	41	8	<500	1.06
Sancure™ AU4050			•	15	36	32	8	<125	1.05
Turboset™ Ultra Eco			•	<5	36	35	7.5	<400	1.04
Turboset™ 2027			•	22.5	40	35	8.7	<500	1.07
Turboset™ 5000HS			•	<5	50	48	8	<400	1.06

		Applications	;						
Lubrizol Product	Liquid Roof	Vertical Masonry	Horizontal Masonry	Solvent	Acid Number	TG (°C)	% Weight Solids	Viscosity (CPS)	Specific Gravity
Doresco® L91-1X		•		Xylene	<10	57	49	5000 - 8000	1.05
Doresco® M6A	•	•	•	Xylene	<10	61	50	5.7	1.03
Doresco® T5T60			•	Toluene	<10	43	60	7000	1.07

### **Industrial Coating Technologies**

### Acrylic and PVDC Technologies for Industrial Coatings

Lubrizol Product	Polymer Type	Key Benefits
Carboset® 514*	Alkali Strippable Acrylic Dispersion	High gloss, fast drying, excellent hardness and adhesion.
Carboset® 560	Alkali Strippable Acrylic Dispersion	Water and UV resistance, excellent mechanical stability and adhesion.
Carboset® 441	Peelable Acrylic Emulsion	Balance of adhesion and cohesion for strippability, excellent toughness and durability.
Carboset® CR 3090*	Stryrene Acrylic Emulsion	Great corrosion and weathering resistance; adhesion to CRS, phosphated and galvanized steel.
Carboset® CR 7185	Acrylic Emulsion	Fast dry, resistant to gas, solvents, impact, water and humidity; adhesion to phosphated and stainless steel.
Carboset® CR 765*	Stryrene Acrylic Emulsion	Balance of performance properties, high gloss, water and humidity resistance, reactive pigment stability; adhesion to CRS, phasphated, aluminum, copper, stainless steel.
Carboset® PL 958*	Peelable Acrylic Copolymer Emulsion	Low VOC, high elasticity, solvent and breaking resistance.
Carboset® CR 7162E	Styrene Acrylic Emulsion	Air and force dry, gloss and semi-gloss, corrosion and humidity resistance; adhesion to plastic, metal and masonry.
Carboset® 3142	Styrene Acrylic Emulsion	Gloss and semi-gloss, wet adhesion, block and sag resistance, interior and exterior architectural; alkyd like application.
Permax™ 805	PVDC Emulsion	Low VOC, humidity resistant, increased shelf-life and in-can stability; adhesion to aluminum, CRS, Bonderite 1000, ground and galvanized steel.
Permax™ 805B	PVDC Emulsion	Low VOC, small particle size, low MVTR, excellent corrosion resistance and durability; adhesion to aluminum, CRS, ground and galvanized steel, potable water applications.

<sup>\*</sup>Produced in multiple facilities; product name may vary

### Polyurethane Technologies for Industrial Coatings

Lubrizol Product	Polymer Type	Key Benefits
Aptalon™ M8120	Self-Crosslinking Polyurethane Dispersion - Polyamide	Excellent adhesion to metal surfaces, extraordinary hardness and durability in a 1k WB DTM, outstanding chemical and corrosion resistance. (37% bio-based content).
Aptalon™ W8030	Self-Matting Polyurethane Dispersion - Polyamide	Low gloss without matting agents and excellent abrasion resistance
Sancure™ 970	Polyurethane Composite - Polyester	Great chemical, abrasion, and alkali resistance, crosslinkable; adhesion to ferrous and non-ferrous metals.

<sup>\*</sup>Produced in multiple facilities; product name may vary

		Арр	lications								
Lubrizol Product	DTM	Primer	Topcoat	Temporary Coating	MFFT (°C)	TG (°C)	% Weight Solids	% Volume Solids	рН	Viscosity (CPS)	Specific Gravity
Carboset® 514*				•	10	28	40	38	6.6	100 - 500	1.05
Carboset® 560				•	17	47	27	24.5	7.6	<200	1.03
Carboset® 441				•	18	23	45	42	8	100	1.04
Carboset® CR 3090*	•	•	•		33	37	45	42	8.5	<500	1.05
Carboset® CR 7185	•	•	•		40		42	40	8.3	5-120	1.03
Carboset® CR 765*	•	•	•		34		41	40.7	8	10 - 150	1.03
Carboset® PL 958*				•	<3		46	43.4	7	40 - 125	1.07
Carboset® CR 7162E	•	•	•		23		41.5	39	8	10-100	1.03
Carboset® 3142	•	•	•		7		41.5	40	8.5	10-500	1.02
Permax™ 805	•	•			13.5		60	50.4	1.0 - 2.2	85	1.28
Permax™ 805B	•	•			13.5		60	50	1.8	85	1.28

		Applications							
Lubrizol Product	DTM	Primer	Topcoat	MFFT (°C)	% Weight Solids	% Volume Solids	рН	Viscosity (CPS)	Specific Gravity
Aptalon™ M8120	•	•	•	50	37	34	8.5	<500	1.09
Aptalon™ W8030			•	61	35	34.2	7.5	<500	1.04
Sancure™ 970	•	•	•	50	42	41	8	<500	1.06



# **Industrial Coating Technologies**

Solution Acrylic Technologies for Industrial Coatings								
Lubrizol Product	Polymer Type	Key Benefits						
Doresco® Cl7208	Solvent-Borne Thermoplastic Acrylic	Multisubstrate adhesion; excellent for primers applications.						
Doresco® M6A	Solvent-Borne Thermoplastic Acrylic	High durability and hardness; clear and pigmented formulations.						
Doresco® OH65	Hydroxylated Acrylic (2% OH Solids)	High adhesion, balanced mechanical properties, hardness and impact resistance.						

# **Transportation Coating Technologies**

Resin Technologies for Transportation Coatings							
Lubrizol Product	Polymer Type	Key Benefits					
Acrylic Technologies							
Carboset® CR 7181	Self-Crosslinking Acrylic Emulsion	High gloss, excellent UV resistance; adhesion to a variety of plastics including ABS, Lexan, Melamine, and Noryl.					
Carboset® PC 27	Self-Crosslinking Acrylic Emulsion	Superior chemical resistance to sunscreens, insect repellents, surface cleaners and protectants, excellent scratch, abrasion and print resistance; adhesion to a to a variety of plastics including ABS, Lexan, Noryl.					
Polyurethane Technolo	gies						
Sancure <sup>™</sup> 20025F	Aliphatic Polyurethane Dispersion - Polyester	Low VOC, durable, elastic, crosslinkable; adhesion to nylon and polyester, heat sealable.					
Aptalon™ M8120	Self-Crosslinking Polyurethane Dispersion - Polyamide	Balance of hardness and abrasion resistance, superior chemical and hydrolytic resistance (37% bio-based content).					



Applications											
Lubrizol Product	DTM	Primer	Topcoat	Temporary Coating	MFFT (°C)	TG (°C)	% Weight Solids	Solvent Type	Acid Number (mg KOH)	Viscosity (CPS)	Specific Gravity
Doresco® CI7208	•	•			_		49	Xylene	<10	250-1000	
Doresco® M6A	•	•	•		_		50	Xylene	5-10	5700	
Doresco® OH65	•	•	•		-		60	Xylene	2% OH Solids	2000	

	Applic	ations								
Lubrizol Product	Primer	Topcoat	MFFT (°C)	% Weight Solids	% Volume Solids	рН	Viscosity (CPS)	Specific Gravity		
Acrylic Technologies										
Carboset® CR 7181	•	•	90	42	39	9	6 - 50	1.06		
Carboset® PC 27	•	•	90	42	40	8.5	50 - 200	1.05		
Polyurethane Technolog	Polyurethane Technologies									
Sancure™ 20025F		•	<5	48	45	8	<500	1.05		
Aptalon™ M8120	•	•	50	37	34	8.5	<500	1.09		

Acrylic/PVD	C Technologies					
Lubrizol Product	Polymer Type	% Weight Solids	MFFT (°C)	APEO-Free <sup>1</sup>	Formaldehyde- Free <sup>1</sup>	Availability <sup>2</sup>
Acrylic Technologies						
Carboset® 2951	Self-Crosslinking Acrylic Copolymer Emulsion	44	<5	Yes	Yes	NA   EMEAI
Carboset® 2968	Self-Crosslinking Acrylic Emulsion	41.5	57	Yes	Yes	NA   EMEAI
Carboset® 3142	Styrene Acrylic Emulsion	41	7	Yes	Yes	EMEAI
Carboset® 441	Peelable Acrylic Emulsion	45	18	Yes	No	NA
Carboset® 514	Alkali Strippable Acrylic Emulsion	40	10	Yes	Yes	NA   EMEAI
Carboset® 560	Alkali Strippable Acrylic Emulsion	27	17	Yes	Yes	NA   EMEAI
Carboset® 7722	Acrylic Emulsion	50	<5	Yes	No	NA   EMEAI
Carboset® 7733	Acrylic Emulsion	50	21	Yes	No	NA   EMEAI
Carboset® AE 960³	Acrylic Emulsion	56	<5	Yes	Yes	NA   EMEAI
Carboset® AMO 400	Acrylic Oil Modified Copolymer	40	12	Yes	Yes	NA   EMEAI
Carboset® CA 1009³	Acrylic-Polyurethane Polymer	55	2	Yes	Yes	NA   EMEAI
Carboset® CA 600³	Self-crosslinking Acrylic Emulsion	42	35	Yes	Yes	NA   EMEAI
Carboset® CA 7100RC	Styrene Acrylic Emulsion	48	<5	Yes	Yes	EMEAI
Carboset® CA 7107	Acrylic Emulsion	50	<5	Yes	No	EMEAI
Carboset® CA 7120RC	Styrene Acrylic Emulsion	48	<5	Yes	Yes	NA
Carboset® CA 7147	Acrylic Emulsion	47	6	Yes	Yes	EMEAI
Carboset® CA 7160RC	Styrene Acrylic Emulsion	50	21	Yes	Yes	EMEAI
Carboset® CR 3090	Styrene Acrylic Emulsion	45	33	Yes	Yes	NA
Carboset® CR 7162E	Styrene Acrylic Emulsion	41.5	23	Yes	Yes	EMEAI
Carboset® CR 7181	Self-Crosslinking Acrylic Emulsion	42	90	Yes	Yes	NA   EMEAI
Carboset® CR 7185	Acrylic Emulsion	42	40	Yes	Yes	NA   EMEAI
Carboset® CR 726	Self-Crosslinking Acrylic Emulsion	42	35	Yes	Yes	NA   EMEAI
Carboset® CR 765	Styrene Acrylic Emulsion	41	34	Yes	Yes	NA   EMEAI
Carboset® PC 27	Self-Crosslinking Acrylic Polymer	42	90	Yes	Yes	NA   EMEAI
Carboset® PL 958³	Peelable Acrylic Copolymer Emulsion	46	<5	Yes	No	NA   EMEAI
Carboset® RPT 2000³	Acrylic Copolymer Emulsion	55	<5	No	Yes	NA   EMEAI
Carboset® RPT 3030	Acrylic Emulsion	55	<5	Yes	No	NA   EMEAI
Carboset® SA 850³	Acrylic Copolymer Emulsion	55	<5	No	Yes	NA   EMEAI
Carbotac® 1811	Acrylic Emulsion	55	<5	Yes	No	NA   EMEAI
PVDC Technologies						
Permax <sup>™</sup> 805	PVDC Emulsion	60	13.5	Yes	Yes	NA   EMEAI
Permax™ 805B	PVDC Emulsion	60	13.5	Yes	Yes	NA   EMEAI

¹Ingredient not intentionally added to the composition or used in manufacture of Lubrizol product. ²Product availability is subject to change without notice. Please contact your local representative for current product information and availability in other regions. ³ Produced in multiple facilities;product name may vary.

Polyurethane Dispersion Technologies									
Lubrizol Product	Polymer Type	% Weight Solids	MFFT (°C)	APEO-Free <sup>1</sup>	NMP-Free <sup>1</sup>	Availability <sup>2</sup>			
Aptalon™ M8120	Self-Crosslinking Polyurethane Dispersion - Polyamide	37	50	Yes	Yes	NA   EMEAI			
Aptalon™ W8030	Self-Matting Polyurethane Dispersion - Polyamide	35	61	Yes	Yes	NA   EMEAI			
Aptalon™ W8060	Self-Crosslinking Polyurethane Dispersion - Polyamide	36	59	Yes	Yes	NA   EMEAI			
Sancure <sup>™</sup> 20025F	Aliphatic Polyurethane Dispersion - Polyester	48	<5	Yes	Yes	NA   EMEAI			
Sancure <sup>™</sup> 20041	Polyurethane Dispersion - Polyester	34	22	Yes	Yes	NA			
Sancure™ 861	Polyurethane Dispersion - Polyether	40	<5	Yes	Yes	NA   EMEAI			
Sancure <sup>™</sup> 942	Polyurethane Dispersion - Polyester	42	26	Yes	Yes	NA   EMEAI			
Sancure <sup>™</sup> 970	Polyurethane Dispersion - Polyester	50	42	Yes	Yes	NA   EMEAI			
Sancure™ AU4050/E	Self-Crosslinking Acrylic/Polyester Polyurethane Hybrid Dispersion	36	15	Yes	Yes	NA   EMEAI			
Turboset™ 2027	Self-Crosslinking Polyurethane Dispersion - Polyester	40	22.5	Yes	Yes	NA   EMEAI			
Turboset™ 5000HS	Self-Crosslinking Polyurethane Dispersion - Polyether	50	<5	Yes	Yes	NA   EMEAI			
Turboset™ Ultra Eco	Self-Crosslinking Polyurethane Dispersion - Polyether	36	<5	Yes	Yes	NA			

<sup>&</sup>lt;sup>1</sup>Ingredient not intentionally added to the composition of Lubrizol product. <sup>2</sup>Product availability is subject to change without notice. Please contact your local representative for current product information and availability in other regions.

Solution Acrylic Technologies									
Lubrizol Product	Polymer Type	Solvent	% Weight Solids	TG (°C)	Availability <sup>2</sup>				
Doresco® AC4-74	Solvent-Borne Thermoplastic Acrylic	Toluene	45	50	NA				
Doresco® L91-1X	Solvent-Borne Acrylic	Xylene	49	57	NA   EMEAI				
Doresco® CI7208	Solvent-Borne Thermoplastic Acrylic	Xylene	49	39	EMEAI				
Doresco® M6A	Solvent-Borne Thermoplastic Acrylic	Xylene	50	61	EMEAI				
Doresco® OH65	Hydroxylated Acrylic (2% OH Solids)	Xylene	60	14	NA   EMEAI				
Doresco® T5T60	Solvent-Borne Thermoplastic Acrylic	Toluene	60	43	EMEAI				

¹Ingredient not intentionally added to the composition of Lubrizol product. ²Product availability is subject to change without notice. Please contact your local representative for current product information and availability in other regions.

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Lubrizol do Brasil Aditivos Ltda Avenida Nove de Julho, 3653 Jardim Paulista Sao Paulo – SP 01407-000 +55.11.4097.0250 Lubrizol Performance Coatings is a market-driven innovator of specialty chemicals for coatings, inks and composites. Our portfolio of resin, binder, dispersant, wax additive and specialty additive technologies solves challenges across a wide range of markets and applications. Formulators choose Lubrizol to benefit from our innovative technologies, customer collaboration and global reliability. More than just a supplier, we are a valued partner with extensive experience in surface protection, dispersion, adhesion and barrier properties. We work closely with customers to enhance the performance, productivity and sustainability benefits of their products and drive new opportunities for market success.

### Lubrizol

### **Performance Coatings**

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