



# RESINS PRODUCT GUIDE

FOR PAINTS & COATINGS

***Lubrizol***

**Performance Coatings**

[www.lubrizol.com/coatings](http://www.lubrizol.com/coatings)

# ENABLING CUSTOMER SUCCESS

## 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 & 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

PRODUCT	POLYMER TYPE	KEY BENEFITS
Carboaset® 2951	Self-crosslinking Acrylic Copolymer Emulsion	Low VOC exceptional chemical & block resistance, early hardness & external durability also suitable for use in eco-label paints & coatings.
Carboaset® 2968	Self-crosslinking Acrylic Emulsion	Early hardness, sandability with superior chemical resistance; blend vehicle with polyurethanes
Carboaset® 7722	Acrylic Emulsion	Low VOC, adhesion, stain blocking, & scrub resistance in all sheens
Carboaset® 7733	Acrylic Emulsion	Low VOC, exterior durability & scrub resistance in high gloss formulations
Carboaset® AMO 400	Acrylic Oil Modified Copolymer	Renewable, low VOC, high melt temperature for high speed sanding, improved toughness, black heel mark & abrasion resistance; blend vehicle with other resins
Carboaset® CR 726*	Self-crosslinking Acrylic Emulsion	Low VOC & excellent hardness
Carboaset® CR 7181	Self-crosslinking Acrylic Emulsion	Hard, excellent chemical resistance, air & forced dry compatible; adhesion to wood, metal, & plastic
Carboaset® 3142	Styrene Acrylic Emulsion	Low VOC, high gloss, exceptional block & chemical resistance, multi-substrate adhesion, exterior durability; alkyd-like application
Carboaset® CA 7147	Acrylic Emulsion	High gloss, fine particle size, fast drying, non-yellowing, water, weather, & dirt pick-up resistant

\*Produced in multiple facilities; product name may vary

### Polyurethane Dispersion Technologies for Wood Coatings

PRODUCT	POLYMER TYPE	KEY BENEFITS
Aptalon™ W8060	Self-crosslinking Polyurethane Dispersion - Polyamide	Renewable, superior chemical resistance, balance of hardness, abrasion & scratch resistance
Aptalon™ W8062	Self-crosslinking Polyurethane Dispersion - Polyamide	Lower VOC, improved scuff & black heel mark resistance
Aptalon™ W8030	Self-Matting Polyurethane Dispersion - Polyamide	Low gloss without matting agents & excellent abrasion resistance
Aptalon™ W8034	Self-Matting Polyurethane Dispersion - Polyamide	Low VOC, low gloss without matting agents & excellent abrasion resistance
Aptalon™ 8080HS	High-solids Polyurethane Dispersion - Polyamide	Renewable, rapid hardness, excellent chemical, mar & scuff resistance, crosslinkable
Sancure™ 970	Polyurethane Dispersion - Polyester	Adhesion to multiple substrates, excellent hardness & chemical resistance, crosslinkable
Turboaset™ 1000	Self-crosslinking Polyurethane Hybrid Dispersion	Rapid hardness, excellent chemical, mar & scuff resistance, crosslinkable
Turboaset™ 2027	Self-crosslinking Polyurethane Dispersion - Polyester	Excellent chemical & stain resistance
Turboaset™ Ultra Eco	Self-crosslinking Polyurethane Dispersion - Polyester	Low VOC, superior black heel mark resistance, excellent hardness & chemical resistance
Sancure™ AU 4050	Self-crosslinking Acrylic/Polyester Polyurethane Hybrid Dispersion	Non-yellowing, excellent chemical, abrasion & scuff resistance

APPLICATIONS												
FLOORS	CABINETS	FURNITURE	WINDOWS & DOORS	INTERIOR TRIMS AND PRIMERS	STAINS	MFFT (°C)	% WEIGHT SOLIDS	% VOLUME SOLIDS	pH	VISCOSITY (CPS)	SPECIFIC GRAVITY	
		•	•	•	•	<5	44	43	8	30 - 250	1.01	
•	•	•				57	41.5	39	7.5	10 - 300	1.04	
				•		<5	50	48	8.4	40 - 800	1.06	
				•		21	50	46	8.4	40 - 800	1.06	
•	•	•	•		•	12	40	37.5	7.5	<500	1.06	
•	•	•	•			35	42	41	8	50 - 600	1.05	
	•	•				90	42	39.1	9	50	1.06	
		•	•	•		7	41	40	7	10-500	1.02	
				•	•	6	46	45	8.5	300 - 1200	1.01	

APPLICATIONS										
FLOORS	CABINETS	FURNITURE	WINDOWS & DOORS	MFFT (°C)	% WEIGHT SOLIDS	% VOLUME SOLIDS	pH	VISCOSITY (CPS)	SPECIFIC GRAVITY	
•		•		59	36	33	7.5	<500	1.05	
•	•	•		31	36	33	7.5	<500	1.04	
•	•	•		61	35	34.2	7.5	<500	1.04	
•	•	•		5	35	33	8	<500	1.03	
•		•	•	45	50	50	7.5	<500	1.05	
•		•	•	50	42	41	8	<500	1.06	
•	•	•		23	39	36	7.5	<500	1.05	
•		•		22.5	40	35	8	<500	1.07	
•		•		<5	36	35	7.5	<400	1.04	
•		•	•	15	36	32	8	<125	1.05	

Acrylic Technologies for Building & Construction Coatings

PRODUCT	POLYMER TYPE	KEY BENEFITS
Carboset® 2951	Self-crosslinking Acrylic Copolymer Emulsion	Low VOC, Exceptional chemical & block resistance & early hardness
Carboset® 2968	Self-crosslinking Acrylic Emulsion	Robust water resistance, high hardness, outstanding gloss/wet look, excellent chemical & mar resistance
Carboset® 7722	Acrylic Emulsion	Low VOC, good scrub resistance, early block & print resistance, pigmentable
Carboset® 7733	Acrylic Emulsion	Low VOC, high gloss, inherent stain removal & washability, early block resistance & great flow & leveling
Carboset® AE 960*	Acrylic Emulsion	Low VOC, excellent dirt pick-up, balance of elongation & tensile strength, outstanding water resistance, weathering & crack bridging also suitable for ASTM D6083 compliant paints & coatings.
Carboset® CA 7147	Acrylic Emulsion	Low VOC, small particle size, alkali resistance, high water vapor permeability & low CO <sub>2</sub> permeability
Carboset® CA 7107	Acrylic Emulsion	Low VOC, excellent water, alkali & 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 & 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 & dirt pick-up resistance, balance of elasticity & tensile strength. Great adhesion to most masonry substrates including terracotta tiles.
Carboset® CR 7185	Acrylic Emulsion	Excellent water retention, concrete curing properties & high alkali resistance
Carboset® CA 600*	Acrylic Emulsion	Early water resistance, fast drying, great substrate penetration, alkaline, blushing, efflorescence, chemical resistance, non-yellowing & exterior exposure
Carboset® CA 1009*	Acrylic-Polyurethane Polymer	Low VOC, minimal water uptake & capillary absorption, superior water & bitumen bleed through resistance, excellent exterior durability & heat stable.
Carboset® RPT 2000A	Acrylic Copolymer Emulsion	Low VOC, superior adhesion to wide range of substrates & great bitumen bleed through resistance
Carboset® RPT 3030	Acrylic Emulsion	Low VOC, excellent low temperature elasticity, ASTM D6083 compliance capable, & adhesion to EPDM
Carboset® SA 850*	Acrylic Copolymer Emulsion	Low VOC, robust crack-bridging performance & weatherability, resistant to chalking, fading, & water penetration, excellent dirt pick-up, efflorescence, alkali properties
Carboset® 3142	Styrene Acrylic Emulsion	Low VOC, high gloss coatings, exterior durability, good block & stain resistance, multi-substrate adhesion; alkyd-like application
Carboset® X-Flex 100	High Solids Acrylic Emulsion	Low VOC, highly elastic cement compatible binder, excellent alkali & water resistance
Carboset® XM200	Acrylic Emulsion	Low VOC, cement compatible binder, enhances adhesion & mechanical properties of cementitious formulations
Carboset® PL 958*	Acrylic Emulsion	Low VOC, high tensile strength for clear & pigmented temporary protection & excellent chemical resistance. Peelable coatings.
Carbotac® 1811	Acrylic Emulsion	Low VOC, long open time polymer for bonding bridge masonry applications

\*Produced in multiple facilities; product name may vary

	APPLICATIONS				MFFT (°C)	TG (°C)	% WEIGHT SOLIDS	% VOLUME SOLIDS	pH	VISCOSITY (CPS)	SPECIFIC GRAVITY
	LIQUID ROOF	VERTICAL MASONRY	HORIZONTAL MASONRY	MORTAR MODIFIER							
		•	•		<5		44	43	8	30 - 250	1.01
			•		57		41.5	39	7.5	10 - 300	1.04
		•	•		<5		50	48	8.4	40 - 800	1.06
		•	•		21		50	46	8.4	40 - 800	1.06
	•	•			<5	-25	56	55	8.2	<2000	1.02
		•	•		6		47	46	8.8	300-1200	1.01
	•	•			0	8	50	47	8.5	9000	1.05
	•	•			0	-10	50	49	8.3	8.000-11000	1.01
		•	•		21	18	50	49	8.3	2500-5000	1.01
	•	•			0	0	48	47	8.3	8000-12500	1.01
			•		44		42	41	8.5	10-300	1.03
			•		35	55	42	41	8.3	41	1.06
	•	•			2	5	55	53	8	150 - 800	1.1
	•				<5	10	55	53	8.5	100 - 15000	1.04
	•	•			0	-35	55	53	8	200-1200	1.06
	•	•			<5	10	55	53	8.5	100 - 15000	1.04
		•			7		41	40	7	10-500	1.02
				•		-40	60	60	8.5	100-1000	1.01
				•	0	19	48.5	48	8.5	25	1.01
					0		46.8	43	8	40-125	1.07
				•	0	-43	55	53	3.5	120	1.03

Polyurethane Dispersion Technologies for Building & Construction Coatings

PRODUCT	POLYMER TYPE	KEY BENEFITS
Aptalon™ 8080HS	High-solids Polyurethane Dispersion - Polyamide	Renewable, rapid hardness, excellent chemical, mar & scuff resistance
Aptalon™ W8034	Self-Matting Polyurethane Dispersion - Polyamide	Low VOC, low gloss without matting agents & excellent abrasion resistance
Aptalon™ W8060	Self-crosslinking Polyurethane Dispersion - Polyamide	Renewable, superior chemical resistance, balance of hardness & abrasion resistance & scratch resistance
Aptalon™ W8062	Self-crosslinking Polyurethane Dispersion - Polyamide	Lower VOC, improved scuff & black heel mark resistance
Aptalon™ M8100	Self-crosslinking Polyurethane Dispersion - Polyamide	Balance of hardness & abrasion resistance, superior chemical & hydrolytic resistance
Sancure™ 20041	Polyurethane Dispersion - Polyester	Cosolvent-free, excellent hardness, compatible with acrylics; crosslinkable
Sancure™ 861	Polyurethane Dispersion - Polyether	Low VOC, cosolvent-free, hydrolytic & aging stability, alkali, abrasion & chemical resistance
Sancure™ 20025F	Aliphatic Polyurethane Dispersion - Polyester	Low VOC, provides enhanced durability when blended with acrylics
Sancure™ 970	High Solids Polyurethane Dispersion - Polyester	Chemical & abrasion resistance; crosslinkable
Sancure™ AU4050	Self-crosslinking Acrylic/ Polyester Polyurethane Hybrid Dispersion	Non-yellowing, excellent chemical, abrasion & scuff resistance
Turboset™ Ultra Eco	Self-crosslinking Polyurethane Dispersion - Polyether	Low VOC, superior black heel mark resistance, excellent hardness & chemical resistance
Turboset™ 2027	Self-crosslinking Polyurethane Dispersion - Polyester	Cosolvent-free, excellent chemical resistance & durability

Solution Acrylic Technologies for Building & Construction Coatings

PRODUCT	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 & adhesion to multiple substrates
Doresco® T6T	Solvent-borne Thermoplastic Acrylic in Toluene	Quick drying road-markings for high traffic areas
Doresco® T5T60	Solvent-borne Thermoplastic Acrylic in Toluene	Quick drying road-marking for medium traffic areas; internally plasticized version of Doresco T6T



	APPLICATIONS			MFFT (°C)	% WEIGHT SOLIDS	% VOLUME SOLIDS	pH	VISCOSITY (CPS)	SPECIFIC GRAVITY
	LIQUID ROOF	VERTICAL MASONRY	HORIZONTAL MASONRY						
			•	45	50	50	7.5	<500	1.05
			•	5	35	33	8	<500	1.03
			•	59	36	33	7.5	<500	1.05
			•	31	36	33	7.5	<500	1.04
			•	58	37	34	7.5	<500	1.04
	•		•	22	34	30	8	150	1.05
	•	•		<5	40	39	7.5	<90	1.02
	•	•		<5	48	45	8	<500	1.05
			•	50	42	41	8	<500	1.06
			•	15	36	32	8	<125	1.05
			•	<5	36	35	7.5	<400	1.04
			•	22.5	40	35	8.7	<500	1.07

	APPLICATIONS			SOLVENT	ACID NUMBER	TG (°C)	% WEIGHT SOLIDS	VISCOSITY (CPS)	SPECIFIC GRAVITY
	LIQUID ROOF	VERTICAL MASONRY	HORIZONTAL MASONRY						
		•		Xylene	<10	57	49	5000 - 8000	0.985
	•	•	•	Xylene	<10	61	50	5.7	0.98
			•	Toluene	<10	61	50	3700	0.97
			•	Toluene	<10	43	60	7000	1.00

## Acrylic & PVDC Technologies for Industrial Coatings

PRODUCT	POLYMER TYPE	KEY BENEFITS
Carbozet® 514*	Alkali Strippable Acrylic Dispersion	High gloss, fast drying, excellent hardness & adhesion
Carbozet® 560	Alkali Strippable Acrylic Dispersion	Water & UV resistance, excellent mechanical stability & adhesion
Carbozet® 441	Peelable Acrylic Emulsion	Balance of adhesion & cohesion for strippability, excellent toughness & durability
Carbozet® CR 3090	Stryrene Acrylic Emulsion	Great corrosion & weathering resistance; adhesion to CRS, Phasphated & galvanized steel
Carbozet® CR 3100	Stryrene Acrylic Emulsion	Low VOC, great corrosion & weathering resistance; adhesion to CRS, HRS & galvanized steel
Carbozet® CR 7185	Acrylic Emulsion	Fast dry, resistant to gas, solvents, impact, water & humidity; adhesion to Phasphated & stainless steel
Carbozet® CR 765*	Stryrene Acrylic Emulsion	Balance of performance properties, high gloss, water & humidity resistance, reactive pigment stability; adhesion to CRS, Phasphated, aluminum, copper, stainless steel
Carbozet® PL 3127	Peelable Acrylic Copolymer Emulsion	Low VOC, fast drying, & corrosion resistance
Carbozet® PL 958*	Peelable Acrylic Copolymer Emulsion	Low VOC, high elasticity, solvent & breaking resistance
Carbozet® CR 7162E	Styrene Acrylic Emulsion	Air & force dry, gloss & semi-gloss, corrosion & humidity resistance; adhesion to plastic, metal & masonry
Carbozet® 3142	Styrene Acrylic Emulsion	Gloss & semi-gloss, wet adhesion, block & sag resistance, interior & exterior architectural; alkyd like application
Permax™ 805	PVDC Emulsion	Low VOC, humidity resistant, increased shelf-life & in-can stability; adhesion to aluminum, CRS, Bonderite 1000, ground & galvanized steel
Permax™ 805B	PVDC Emulsion	Low VOC, small particle size, low MVTR, excellent corrosion resistance & durability, adhesion to aluminum, CRS, ground & galvanized steel, potable water applications*

\*Specific compliance reports available upon request

## Polyurethane Technologies for Industrial Coatings

PRODUCT	POLYMER TYPE	KEY BENEFITS
Aptalon™ M8100	Self-crosslinking Polyurethane Dispersion - Polyamide	Balance of hardness & abrasion resistance, superior chemical & hydrolytic resistance
Aptalon™ M8120	Self-crosslinking Polyurethane Dispersion - Polyamide	Excellent adhesion to metal surfaces, extraordinary hardness and durability in a 1k WB DTM, outstanding chemical & corrosion resistance.
Aptalon™ W8030	Self-Matting Polyurethane Dispersion - Polyamide	Low gloss without matting agents & excellent abrasion resistance
Aptalon™ W8034	Self-Matting Polyurethane Dispersion - Polyamide	Low VOC, low gloss without matting agents & excellent abrasion resistance
Sancure™ 970	Polyurethane Composite - Polyester	Great chemical, abrasion, & alkali resistance, crosslinkable; adhesion to ferrous & non-ferrous metals

\*Produced in multiple facilities; product name may vary

APPLICATIONS											
DTM	PRIMER	TOPCOAT	TEMPORARY COATING	MFFT (°C)	TG (°C)	% WEIGHT SOLIDS	% VOLUME SOLIDS	pH	VISCOSITY (CPS)	SPECIFIC GRAVITY	
			•	10	28	40	38	6.6	100 - 500	1.05	
			•	17	47	27	24.5	7.6	<200	1.03	
			•	18	23	45	42	8	100	1.04	
•	•	•		33	37	45	42	8.5	<500	1.05	
•	•	•		9	28	43.5	41	8	<500	1.05	
•	•	•		40		42	40	8.3	5-120	1.03	
•	•	•		34		41	40.7	8	10 - 150	1.03	
			•	5	15	44	42.8	7.8	150	1.05	
			•	<3		46	43.4	7	40 - 125	1.07	
•	•	•		23		41.5	39	8	10-100	1.03	
•	•	•		7		41.5	40	8.5	10-500	1.02	
•	•			13.5		60	50.4	1.0 - 2.2	85	1.28	
•	•			13.5		60	50	1.8	85	1.28	

APPLICATIONS				MFFT (°C)	% WEIGHT SOLIDS	% VOLUME SOLIDS	pH	VISCOSITY (CPS)	SPECIFIC GRAVITY
DTM	PRIMER	TOPCOAT							
		•		58	37	34	8	<500	1.04
•	•	•		50	37	34	8.5	<500	1.09
		•		61	35	34.2	7.5	<500	1.04
		•		5	35	33	8	<500	1.03
•	•	•		50	42	41	8	<500	1.06

## INDUSTRIAL COATING TECHNOLOGIES

### Solution Acrylic Technologies for Industrial Coatings

PRODUCT	POLYMER TYPE	KEY BENEFITS
Doresco® AC4-74	Solvent-borne Thermoplastic Acrylic	Adhesion promoted resin, tough & flexible, exterior durability, block resistance & bake system capable; adhesion to aluminum, primed & unprimed steel
Doresco® OH60	Hydroxylated Acrylic (3% OH Solids)	High gloss, balance of hardness, flexibility & impact resistance; adhesion to galvanized steel; crosslinkable with isocyanates
Doresco® OH65	Hydroxylated Acrylic (2% OH Solids)	High gloss, balance of hardness, flexibility & impact resistance; adhesion to metal surfaces; crosslinkable with isocyanates
Doresco® OH38	Hydroxylated Acrylics (4% OH Solids)	Excellent gloss & hardness, quick drying, chemical, UV & weather resistance; adhesion to wood, plastics, & metal
Doresco® M6A	High Solids Solvent-borne Thermoplastic Acrylic	Non-yellowing, quick dry, excellent chemical resistance & weathering; adhesion to metal surfaces
Doresco® CI7208	Solvent-borne Thermoplastic Acrylic	Adhesion to galvanized steel, multipurpose primers, gloss enamels

## TRANSPORTATION COATING TECHNOLOGIES

### Resin Technologies for Transportation Coatings

PRODUCT	POLYMER TYPE	KEY BENEFITS
<b>ACRYLIC TECHNOLOGIES</b>		
Carbaset® CR 7181	Self-Crosslinking Acrylic Emulsion	High gloss, excellent UV resistance; adhesion to a variety of plastics including ABS, Lexan, Melamine, & Noryl
Carbaset® PC 27	Self-Crosslinking Acrylic Emulsion	Superior chemical resistance to sunscreens, insect repellents, surface cleaners & protectants, excellent scratch, abrasion & print resistance; adhesion to a variety of plastics including ABS, Lexan, Noryl
<b>POLYURETHANE TECHNOLOGIES</b>		
Sancure™ 20025F	Aliphatic Polyurethane Dispersion - Polyester	Low VOC, durable, elastic, crosslinkable; adhesion to nylon & polyester, heat sealable
Sancure™ PC 55	Aliphatic Polyurethane Dispersion - Polyester/Polycarbonate	Low VOC, balance of mar resistance with soft tactile feel, superior chemical resistance to sunscreens, insect repellents, surface cleaners & protectants, & excellent UV resistance
Aptalon™ M8100	Self-crosslinking Polyurethane Dispersion - Polyamide	Balance of hardness & abrasion resistance, superior chemical & hydrolytic resistance



	APPLICATIONS			SOLVENT	ACID NUMBER	TG (°C)	% WEIGHT SOLIDS	VISCOSITY (CPS)	SPECIFIC GRAVITY
	DTM	PRIMER	TOPCOAT						
	•			Toluene	N/A	50	45	8000	0.96
	•	•	•	MPA/Xylene (1:1)	<10	14	50	1000-2500	0.96
	•	•	•	Xylene	<11	27	50	1000-3000	0.96
	•	•	•	MPA/Xylene (1:1)	<12	50	42	300-700	0.98
	•	•	•	Xylene	<10	61	50	800-2500	1.00
	•	•	•	Xylene	<10	39	49	250-1000	0.97

	PRIMER	TOPCOAT	MFFT (°C)	% WEIGHT SOLIDS	% VOLUME SOLIDS	pH	VISCOSITY (CPS)	SPECIFIC GRAVITY
	•	•	90	42	39	9	6 - 50	1.06
	•	•	90	42	40	8.5	50 - 200	1.05
		•	< 5	48	45	8	<500	1.05
		•	< 5	42	39	7	<500	1.05
		•	58	37	34	7.5	<500	1.04



# Acrylic/PVDC Technologies

PRODUCT	POLYMER TYPE	% WEIGHT SOLIDS	MFFT (°C)	APEO-FREE <sup>1</sup>	FORMALDEHYDE-FREE <sup>1</sup>	AVAILABILITY <sup>2</sup>
<b>ACRYLIC TECHNOLOGIES</b>						
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 <sup>3</sup>	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 960 <sup>3</sup>	Acrylic Emulsion	56	<5	Yes	Yes	NA   EMEAI
Carboset® AMO 400	Acrylic Oil Modified Copolymer	40	12	Yes	Yes	NA   EMEAI
Carboset® CA 1009 <sup>3</sup>	Acrylic-Polyurethane Polymer	55	2	Yes	Yes	NA   EMEAI
Carboset® CA 600 <sup>3</sup>	Acrylic Emulsion	42	35	Yes	Yes	NA   EMEAI
Carboset® CA 7100RC	Styrene Acrylic Emulsion	48	0	Yes	Yes	EMEAI
Carboset® CA 7107	Acrylic Emulsion	50	0	Yes	No	EMEAI
Carboset® CA 7120RC	Styrene Acrylic Emulsion	48	0	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 3100	Styrene Acrylic Emulsion	43.5	9	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 <sup>3</sup>	Self-crosslinking Acrylic Emulsion	42	35	Yes	Yes	NA   EMEAI
Carboset® CR 765 <sup>3</sup>	Styrene Acrylic Emulsion	41	34	Yes	Yes	NA   EMEAI
Carboset® CR 795	Acrylic Emulsion	45	24	Yes	Yes	NA   EMEAI
Carboset® PC 27	Self-crosslinking Acrylic Polymer	42	90	Yes	Yes	NA   EMEAI
Carboset® PL 3127	Peelable Acrylic Copolymer Emulsion	44	5	Yes	Yes	NA   EMEAI
Carboset® PL 958 <sup>3</sup>	Peelable Acrylic Copolymer Emulsion	46	<3	Yes	No	NA   EMEAI
Carboset® RPT 2000 <sup>3</sup>	Acrylic Copolymer Emulsion	55	<5	No	Yes	NA   EMEAI
Carboset® RPT 3030	Acrylic Emulsion	55	0	Yes	No	NA   EMEAI
Carboset® SA 850 <sup>3</sup>	Acrylic Copolymer Emulsion	55	<5	No	Yes	NA   EMEAI
Carboset® X-Flex 100	High Solids Acrylic Emulsion	60	0	-	No	EMEAI
Carboset® XM200	Acrylic Emulsion	48.5	Tg = 19	Yes	No	NA   EMEAI
Carbotac® 1811	Acrylic Emulsion	55	0	Yes	No	NA   EMEAI
<b>PVDC TECHNOLOGY</b>						
Permax™ 805	PVDC Emulsion	60	13.5	Yes	Yes	NA   EMEAI
Permax™ 805B	PVDC Emulsion	60	13.5	Yes	Yes	NA   EMEAI

<sup>1</sup> Ingredient not intentionally added to the composition or used in manufacture 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.

<sup>3</sup> Produced in multiple facilities; product name may vary.

## Polyurethane Dispersion Technologies

PRODUCT	POLYMER TYPE	% WEIGHT SOLIDS	MFFT (°C)	APEO-FREE <sup>1</sup>	NMP-FREE <sup>1</sup>	AVAILABILITY <sup>2</sup>
Aptalon™ 8080HS	High-solids Polyurethane Dispersion - Polyamide	50	45	Yes	Yes	NA   EMEAI
Aptalon™ M8100	Self-crosslinking Polyurethane Dispersion - Polyamide	37	58	Yes	Yes	NA   EMEAI
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™ W8034	Self-Matting Polyurethane Dispersion - Polyamide	35	5	Yes	Yes	NA   EMEAI
Aptalon™ W8060	Self-Crosslinking Polyurethane Dispersion - Polyamide	36	59	Yes	Yes	NA   EMEAI
Aptalon™ W8062	Self-Crosslinking Polyurethane Dispersion - Polyamide	36	31	Yes	Yes	NA   EMEAI
Sancure™ 20025F	Aliphatic Polyurethane Dispersion - Polyester	48	<5	Yes	Yes	NA   EMEAI
Sancure™ 20041	Polyurethane Dispersion - Polyester	34	22	Yes	Yes	NA
Sancure™ 861	Polyurethane Dispersion - Polyether	40	<5	Yes	Yes	NA   EMEAI
Sancure™ 970	Polyurethane Dispersion - Polyester	50	42	Yes	Yes	NA   EMEAI
Sancure™ AU4050	Self-crosslinking Acrylic/Polyester Polyurethane Hybrid Dispersion	36	15	Yes	Yes	NA   EMEAI
Sancure™ PC 55	Aliphatic Polyurethane Dispersion - Polyester/Polycarbonate	42	<5	Yes	Yes	NA
TurboSet™ 1000	Self-crosslinking Polyurethane Hybrid Dispersion	39	23	Yes	Yes	NA   EMEAI
TurboSet™ 2027	Self-Crosslinking Polyurethane Dispersion - Polyester	40	22.5	Yes	Yes	NA   EMEAI
TurboSet™ Ultra Eco	Self-Crosslinking Polyurethane Dispersion - Polyester	36	<5	Yes	Yes	NA

<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

PRODUCT	POLYMER TYPE	SOLVENT	% WEIGHT SOLIDS	TG (°C)	AVAILABILITY <sup>2</sup>
Doresco® AC4-74	Solvent-borne Thermoplastic Acrylic	Toluene	45	50	NA
Doresco® CI7208	Solvent-borne Thermoplastic Acrylic	Xylene	49	39	EMEAI
Doresco® L91-1X	Solvent-borne Acrylic Polymer	Xylene	49	57	NA
Doresco® M6A	Solvent-borne Thermoplastic Acrylic	Xylene	50	61	EMEAI
Doresco® OH38	Hydroxylated Acrylics (4% OH Solids)	MPA/Xylene (1:1)	42	50	EMEAI
Doresco® OH60	Hydroxylated Acrylic (3% OH Solids)	MPA/Xylene (1:1)	50	14	NA   EMEAI
Doresco® OH65	Hydroxylated Acrylic (2% OH Solids)	Xylene	50	27	NA   EMEAI
Doresco® T5T60	Solvent-borne Thermoplastic Acrylic	Toluene	60	43	NA   EMEAI
Doresco® T6T	Solvent-borne Thermoplastic Acrylic	Toluene	50	43	EMEAI

<sup>1</sup> Ingredient not intentionally added to the composition of Lubrizol product.

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## Performance Coatings

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