



TEXTILE COATINGS
PRODUCT GUIDE
RESINS, ADDITIVES & FORMULATED SOLUTIONS

Lubrizol

Performance Coatings

www.lubrizol.com/textilecoatings

INNOVATING TEXTILE COATING PERFORMANCE

Customer Focused Solutions

Myflam®, Performax® and PrintRite® compounds are used in a variety of textile coating applications, such as technical, transportation, apparel and home furnishing fabrics. These products can be custom formulated to impart multi-functional properties that improve substrate performance.

All Lubrizol materials in this brochure can be formulated into customized coatings that enhance end-use performance. Please consult your Lubrizol sales or technical representative for helpful advice.

As a global specialty chemical company, Lubrizol innovates advanced coating technologies that enhance textile performance. Our extensive portfolio of resins, dispersants, wax additives, specialty additives, and formulated solutions is designed to deliver a broad range of functional and aesthetic properties such as durability, flame retardancy, abrasion resistance, water repellence, breathability and cooling, while balancing required look and feel characteristics— clarity, gloss/matte, hand, drape, noise dampening, etc. Committed to innovation, customer collaboration, and reliability, we strive to enable customers a competitive edge when formulating new products or enhancing their current offerings.





Environmentally Conscious Solutions

Formaldehyde-, antimony- and halogen-free, low-VOC, recyclable and re-extrudable technology—Lubrizol’s extensive portfolio of resins, polymers, wax additives, dispersants and custom-formulated solutions include an excellent choice of environmentally conscious options.

Custom Tailored Solutions

Contrary to a “one size fits all” approach when making product recommendations, our application experts are well skilled in putting together custom solutions that meet a customer’s unique requirements. Their market-specific knowledge of what works best for a specific end use is further reinforced by the extensive testing conducted at Lubrizol, using the same testing methodology as our customers.

Customer-Driven Research & Development

Lubrizol research scientists use statistical modeling and have access to thousands of monomer combinations, providing them with the right tools for continuous innovation. If the right solution for a given market application cannot be drawn from Lubrizol’s existing choice of product offerings, our R&D team stands ready to either modify existing technology or forge a new product advancement to better meet customer needs.

ACRYLIC EMULSIONS

	Emulsion	Tg (°C)	Charge	Solids (%)	pH	Specific Gravity	Viscosity (cP)	Heat Reactive	Carboxylated	Formaldehyde-Free	
VERY SOFT	Hycar® 26843	-35	A	65	6.5	1.06	150		•		
	Hycar® T-122S	-30	A	48	3.2	1.05	30	•	•		
	Hycar® T-9202	-26	A	59	3.5	1.07	100	•			
	Hycar® 26-1042	-25	A-N	50	3.5	1.06	200	•	•		
	Hycar® T-91	-16	A	50	2.5	1.06	100	•	•		
	Hycar® 26-1199	-15	A	49	3.7	1.06	550		•	•	
	Hycar® 26083	-15	A	52.5	6	1.07	55	•	•		
	Hycar® 26552A	-15	A	47	4.5	1.05	110		•	•	
SOFT	Hycar® 26-0202	-12	A	50	3.7	1.06	450	•	•		
	Hycar® 26092	-12	A	50	4	1.06	125	•	•		
	Hycar® 2671	-11	A	53	5	1.07	170	•	•		
	Hycar® 26120E	-11	A	50	3.8	1.07	115	•			
	Hycar® T-9207	-9	A	60	2.8	1.08	280	•			
	Hycar® 26871	-7	A	52	5.7	1.07	250	•	•		
	Hycar® 26415	-7	A	59	6	1.08	120	•	•		
	Hycar® 26345	-6	A	50	3.6	1.07	20	•	•		
	Hycar® 2679	-3	A	49	3.7	1.06	100	•			
FIRM	Hycar® 26796	0	A	48	5	1.07	120	•	•		
	Hycar® FF26916	+2	A	50	8.5	1.06	60		•		
	Hycar® 26084	+8	A	49	6	1.07	–	–			
	Hycar® 26349	+12	A	49	4.6	1.07	135	•			
	Hycar® 26091	+20	A	50	6.8	1.16	30	•	•		
	Hycar® 26288	+20	A	50	4	1.07	60	•	•		
	Hycar® 26-1265	+23	A	49	4	1.06	350		•	•	
STIFF	Hycar® 26138	+25	A	49	5.5	1.07	60	•			
	Hycar® 26-1084	+27	A	40	4	1.06	80		•	•	
	Hycar® 26951	+28	A	44	8.5	1.06	100		•	•	
	Hycar® 26348	+30	A	48.5	6	1.07	200				
	Hycar® 26450	+32	A	46	4	1.06	25	•	•		
	Hycar® 26172	+33	A	50	2.5	1.05	125	•	•		
	Hycar® 26391E	+36	A	50	3.6	1.09	125	•	•		
	Hycar® 26256E	+45	A	50	2.5	1.09	140	•			
	Hycar® 26-1475	+50	A	50	4	1.06	350		•	•	
	Hycar® 26315	+55	A	49.5	2.1	1.07	36	•	•		
	Hycar® 26459	+103	A	46.5	3.3	1.04	15	•	•	•	

**Formaldehyde-free and versions with FDA clearances are available on select polymers.

Description/Suggested Uses
High solids textile coatings/adhesives, very soft, flexible, good wet tack. Exhibits good plasticizer resistance.
Flock adhesive/backcoatings, excellent drape. Very good water and solvent resistance.
High solids textile coatings/adhesives. Blends with Hycar T-9207.
Soft, solvent resistant; durable backcoatings.
Foam/froth backcoatings, excellent durability to laundering/dry cleaning, excellent cold flex.
Formaldehyde-free, soft binder; very hydrophobic.
Low-temperature flexibility; clear, white-water color; wash and dry clean durable.
Formaldehyde-free, hydrophobic polymer, highly redispersible in most processes until cured. Excellent for medical applications.
Self-crosslinking version of Hycar 26-1199. Ultra-water resistant.
General purpose coatings/adhesives. Saturation and wet end addition. Excellent color/heat/light stability. Book cover.
General purpose coatings. Foamable flock adhesives with excellent durability. Good solvent and water resistance.
Excellent pigment acceptance. Highly redispersible. Excellent heat stability.
High solids textile coatings/adhesives. Blends with Hycar T-9202.
Soft, hydrophobic acrylic co-polymer emulsion with excellent adhesion to many substrates. Water and abrasion resistance in foamed and non-foamed upholstery and flock applications.
Soft, high solids, self-crosslinking, stable polymer good for flocking and backcoatings.
Foam/froth backcoatings, excellent durability to laundering/dry cleaning, excellent cold flex.
Fabric laminating, backcoating, flocking finishes. Good general purpose acrylic for saturation, book cover, filter paper.
Fabric laminating adhesive. Self thickening with ammonia. Good solvent resistance.
Formaldehyde-free. Excellent abrasion resistance; heat and light stable.
Heat seal adhesive with excellent solvent and plasticizer resistance.
Extremely durable coatings/adhesives. Firm but flexible hand, book cover stock. Solvent and plasticizer resistance.
Topcoatings with abrasion resistance, high gloss and color stability. Dry cleanable and washable.
Heat sealable. FDA compliant direct food contact. Blends with Hycar 26315.
Ultra-water resistant. Formaldehyde-free.
Fabric laminating topcoatings, anti-fray. Outstanding dryclean/laundry resistance. Good thermal stability/solvent resistant.
Firm, excellent lightfastness, formaldehyde-free. Non-wicking, good water resistance.
Formaldehyde-free. Good adhesion to low-energy substrates.
Hydrophobic, excellent oil and solvent resistance for tape release coatings.
Fabric stiffener. High crosslink density. Paper saturant, oil resistant.
Hand builder, flame retarding finish (with salt). Blends with Hycar 26171. Self-thickening.
Pleatable window shades. Hand builder. Highly water resistant, very good color.
Hand builder. Hard glossy topcoatings. Excellent color.
Ultra water resistant and stiff. Formaldehyde-free.
Heat sealable. FDA compliant direct food contact. Blends with Hycar 26288. Excellent water resistance.
Crosslinkable polystyrene emulsion. Formaldehyde-free.



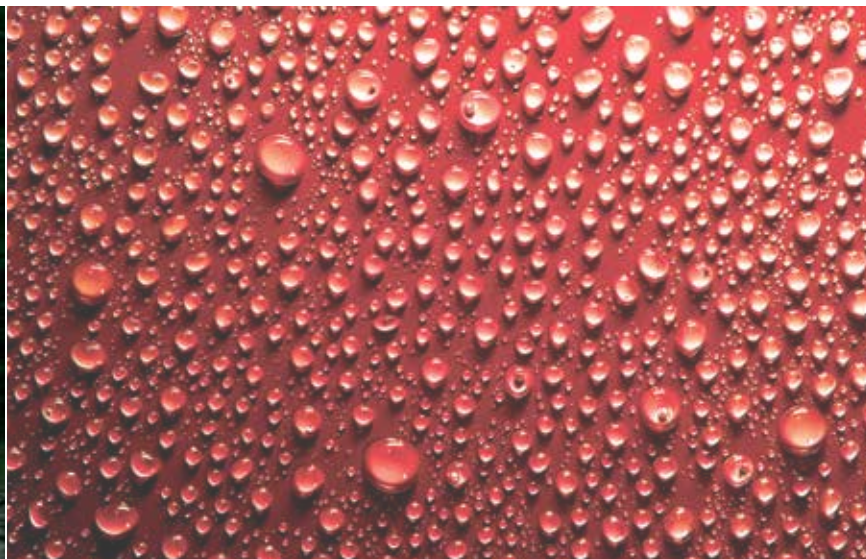
NONIONIC ACRYLIC EMULSIONS

Acrylic Emulsion	Tg (°C)	Charge	Solids (%)	pH	Specific Gravity	Viscosity (cP)	Heat Reactive	Carboxylated	Description/Suggested Uses
PrintRite™ 595E	-20	N	45	2.7	1.05	140	•		Binder for pigment printing of apparel, domestic goods, home furnishing fabrics and industrial fabrics. Suitable for pigment pad dyeing. Nonionic colloidal system offers versatility to other applications, e.g. coating and finishing.
PrintRite™ 2514	-20	A	50	9	1.02	400		•	Formaldehyde-free print binder.
PrintRite™ 9691	n/a	N	23	7	1.02	15,000	•		Printable coating with conductive properties.

ELASTOMERIC EMULSIONS

Emulsion	Tg (°C)	Charge	Solids (%)	pH	Specific Gravity	Viscosity (cP)	Heat Reactive	Carboxylated	Description/Suggested Uses
Hystretch™ V-60	-60	A	50	8	1.01	40	•	•	Ultra-soft, hydrophobic, slightly tacky. Anti-skid coatings. Excellent dry tack, will not transfer. APE-free version available.
Hystretch™ V-43	-43	A	50	8.5	1.03	200	•	•	Very soft and elastic. Backcoatings, anti-pill, nonwoven and paper saturant.
Hystretch™ V-90	-43	A	50	8.5	1.03			•	APEO free and Formaldehyde-free. Very soft and elastic with low tack. Backcoatings, anti-pill, nonwoven and paper saturant.
Hystretch™ V-95	-29	A	50	8	1.04	70	•	•	Soft and elastic. Solvent resistant. Outdoor fabric coatings with excellent UV stability, dirt resistance and low temperature flexibility. APE-free.

HyStretch elastomer emulsions are a Lubrizol breakthrough: patented technology yielding a unique combination of polymer properties. They are as elastic as natural rubber, yet as heat and light stable as synthetic acrylics. Creative formulators have discovered new and innovative applications based on HyStretch emulsions.



POLYURETHANE EMULSIONS

Emulsion	Charge	Solids (%)	pH	Viscosity (cP)	Description/Suggested Uses
Permax™ 202	N	44	6	200	Aliphatic polyether waterborne urethane polymer which provides high MVTR. Recommended in waterproof breathable fabric construction for sports wear, protective apparel, military gear, tents and footwear applications.
Permax™ 232	N	33	5.6	600	Aliphatic polyether waterborne urethane polymer which provides high MVTR. Recommended in waterproof breathable fabric construction for sports wear, protective apparel, military gear, tents and footwear applications.

EMULSIONS

Emulsion	Tg (°C)	Charge	Solids (%)	pH	Viscosity (cP)	Specific Gravity	Description/Suggested Uses
Carbocure™ TSR-72	+72	A	35	4.6	50	1.07	Stiff, high crosslink density polymers. High temperature dimensional stability, moldability. For saturation and spray bond. Carbocure TSR-72 has excellent oil and solvent resistance.

PVC EMULSIONS

	Emulsion	Tg (°C)	Charge	Solids (%)	pH	Specific Gravity	Viscosity (cP)	Heat Reactive	Carboxylated	Description/Suggested Uses
PVC-ACRYLIC COPOLYMER	Vycar™ 590X20E	-17	A	49	10	1.13	100	•	•	Flame-retarding backcoatings with superior cost/performance vs. compounded acrylic. Vycar 590x20 is phosphate plasticized.
	Vycar™ FT-9	-13	A	50	8.8	1.09	150	•	•	
	Vycar™ 460X46	+7	A	49	5	1.09	40	•	•	
	Vycar™ 460X119	+37	A	48	7	1.12	40	•	•	Develops excellent cure, even at lower temperatures, with or without catalyst. Offers excellent water and chemical resistance, a range of firmness and contributes to flame retardance. Can be used for lamination, heat sealing and general saturation or spray bond.
	Vycar™ 460X49	+40	N	50	5	1.13	20	•	•	Exceptional mechanical stability. For spraying, padding, printing, coating, etc. Excellent water and chemical resistance. Heat sealable.
SPECIAL COPOLYMER	Vycar™ 460X58	+40	A	49.5	6	1.13	20	•	•	Flame retarding coatings for carpeting and furnishing fabrics, including commercial installations. Polymer system provides unique combination of low flame response/low smoke.
VINYLIDENE CHLORIDE COPOLYMER	Vycar™ 650X27	-4	A	50	4.5	1.21	70		•	Soft, flame retarding for backcoatings; formaldehyde-free. Moisture vapor barrier coating.
	Vycar™ 660X14	+7	A	49	6	1.23	50	•	•	Special flame retardant coatings. Low MVTR.
	Permax™ 805	MFFT is 13.5°C	A	60	1.7	1.21	80		•	VDC acrylic copolymer with provides exceptionally low MVTR. For excellent corrosion and humidity resistance.
PVC COPOLYMER	Vycar™ 351	+62	A	57	10.3	1.16	20			Product family offers excellent wash/wear resistance, chemical resistance, firmness, flame retardance and is formaldehyde-free. Polymers can be used as is or with various plasticizer levels to control firmness. Useful as saturant spray or coating.
	Vycar™ 352	+69	A	57	10.3	1.16	202			
	Vycar™ 460X104	+70	A	55	8	1.17	15		•	Economical, stiff, flame retarding, formaldehyde-free. Moldable binder for paper saturation and fiber treatment.
	Vycar™ 460X95	+73	A	51	5	1.15	20	•	•	Excellent color and mechanical stability; salt stable. Can be used for lamination, heat sealing and general saturation or spray bond. Flame retarding.
PLASTICIZED PVC	Vycar™ 578	+11	A	56.5	10	1.12	40			Phthalate plasticized. Adhesives/coatings for vinyl. Dielectric or hot bar heat sealable. Yarn sizing. Exhibit low smoke and very low fogging tendencies (SAE test method). Formaldehyde-free.
	Vycar™ 580X83	+17	A	56	10	1.14	30			
	Vycar™ 577	+19	A	56	10.3	1.09	17			Flame retarding finishes for saturation or coating of cellulosic and synthetic fibers. Phosphate plasticized. Vycar 577 will act as dielectric and hot-bar sealable adhesive.

VINYL ACETATE EMULSIONS

Emulsion	Tg (°C)	Charge	Solids (%)	pH	Viscosity (cP)	Description/Suggested Uses
Vycar™ VA-0450	+32	A-N	45	3.8	<400	Self-crosslinking; provides hardness, strength and durability. Nonwoven binder.
Vycar™ VA-1022	+32	N	56	5	1300	General purpose polymer; good water resistance. HEC stabilized.



POLYURETHANE DISPERSIONS

	Polyurethane	Type	Solids (%)	pH	Viscosity (cP)	Cosolvent (% NMP)	100% Modulus (psi)	Tensile Strength (psi)	Elongation at Break (%)
ALIPHATIC	Sancure™ 777	Polyester	35	10	75	8.1	2,000	5,100	410
	Sancure™ 815	Polyester	35	8	125	8.5	4,100	5,450	220
	Sancure™ 825	Polyester	34	8.5	425	8.1	4,800	6,600	200
	Sancure™ 835	Polyester	40	8.5	200	13.2	345	4,900	600
	Sancure™ 843C	Polyester	32	9.3	400	9.3	3,300	4,800	270
	Sancure™ 861	Polyether	40	8.2	1,000	0	650	2,600	580
	Sancure™ 898	Polyester	32	7.8	200	7.8	5,125	6,100	300
	Sancure™ 899	Polyester	35	8	700	8	3,000	4,100	300
	Sancure™ 1301	Polyester	41	9	200	9.8	1700	4,000	320
	Sancure™ 2026C	Polyester	40	8.3	500	6.8	950	4,200	560
	Sancure™ 2255	Polyester	49	8	1,500	8.5	700	3,300	550
	Sancure™ 2715	Polyether	38	9	750	0	1,100	3,300	425
	Sancure™ 12954S	Polyester	32	8	75	9.6	3,600	3,800	120
	Sancure™ 20025F	Polyester	48	8	500	0	300	4,100	1,000
	Sancure™ 20041	Polyester	45	8	100	0	3,400	5,200	330
	Sancure™ 20066	Polyether	40	7.5	60	8.1	440	5,000	680
	Sancure™ 20051	Polyether	42	6	60	0	1,000	4,000	600
AROMATIC	Sancure™ 1511	Polyester	35	9	1,000	11.3	3,150	5,500	250
	Sancure™ 1601	Polyester	35	8.5	1,500	11.3	400	4,525	550
FLAME RETARDANT	Sancure™ 1004B	Polyester	42	9.5	500	14.2	2,100	3,100	275
	Sancure™ 1073C	Polyester	30	9	450	9.9	NA	7,000	18
	Sancure™ 20069	Polyester	42	8	300	0	600	675	150



	Description/Suggested Uses
	Excellent adhesion to wide range of substrates including nylon and plasticizer. Can be used as binder or topcoat. Exhibiting high gloss and excellent abrasion resistance.
	Excellent heat sealability and adhesion to vinyl.
	Coating for rigid surfaces such as wood, concrete and plastics. Blends well with Carboset® acrylics.
	Soft, tough polymer with excellent adhesion to a wide range of substrates.
	Hard aliphatic urethane. Self-crosslinking gives excellent chemical resistance. For use in wood and plastic coatings.
	Excellent balance of hardness, abrasion resistance and flexibility. Low VOC. Hydrolytically stable.
	Forms very hard but flexible coatings with good stain and chemical resistance. Fine particle size.
	Good adhesion to plasticized vinyl. Excellent UV resistance.
	Good adhesion to a variety of substrates; abrasion resistant and flexible.
	Weather resistant coatings, good heat seal properties. Forms soft, flexible, clear film. Has excellent elongation and toughness. Contains no organic solvent forms.
	Soft, flexible high gloss coatings. Fast drying.
	Firm hand, low VOC. A tough film with fast property development. Medium hard, aliphatic polyether urethane.
	Tough, hard polymer for rigid surfaces such as wood, plastic, concrete and metal. Can be blended with a variety of acrylics.
	Low VOC, elastic polymer. Good heat sealability.
	Low VOC, hard polymer, heat sealability.
	Excellent adhesion with wash durability, light fastness and abrasion resistance. Good hydrolysis resistance.
	Cationic charge; abrasion and chemical resistance; excellent humidity resistance.
	Urethane with a good balance of hardness and flexibility. Use where UV exposure is not a concern.
	Heat reactivatable coating with excellent adhesion to many substrates.
	Inherently flame retarding, stiff hand. Excellent UV and heat stability.
	Very stiff, flame retarding and stain resistant.
	Flame retarding, soft binder for polyester and nylon coatings. Good light fastness. Low VOC.



PRESSURE SENSITIVE AND LAMINATING ADHESIVES

Product	Tg (°C)	Charge	Solids (%)	pH	Viscosity (cP)	Description/Suggested Uses
Carbotac™ 1811	-43	A	55	4.5	120	Low temperature, pressure-sensitive adhesive and polymer tackifier with outstanding tack and peel adhesion.
Carbotac™ 1814	-30	A	55	4.5	80	Pressure sensitive adhesive with moderate tack and peel performance. Suggested for use with substrates where film oil and plasticizer resistance are needed.
Carbotac™ 26146	-55	A	51	7	100	Acrylic pressure-sensitive emulsion with excellent adhesion to treated polyethylene and other low energy substrates.
Carbotac™ 26171	-43	A	50	2.5	125	General purpose adhesive with balance of tack, peel and shear. Self thickening with increasing pH. Formaldehyde-free version of Hycar 26-1771.
Carbotac™ 26222	-55	A	50	8	70	Acrylic pressure-sensitive adhesive with high dry tack and excellent adhesion to polyethylene and other low-energy substrates.
Carbobond™ 26387	-23	A	61	5	275	Durable, tough, high-solids acrylic polymer for general purpose adhesives.
Carbobond™ 26373	+5	A	58	2.6	90	Tough, very hydrophobic, high-solids wet laminating adhesive with high green tack. Heat sealable.
Performax™ 8535	NA	NA	48	9	8,000	Co-solvent free, waterborne, aliphatic polyurethane adhesive compound with excellent adhesion to polyester, nylon and cotton. Can be used as a tie coat for wet or dry lamination.



INK RECEPTIVE COATINGS

Product	Viscosity	Finish	Application Method	Softness	Key Feature
PrintRite™ DP-261	60	Semi-gloss	Various	Medium	Excellent adhesion and scratch resistance on polyolefin and film substrates.
PrintRite™ DP 282	80	Glossy	Various	Medium	Good overall print properties.
PrintRite™ DP 316	10	Invisible	Padding	Soft	Formaldehyde-free pre-treatment concentrate for pigment inks on cotton and cotton-polyester blends.
PrintRite™ DP 317	10	Invisible	Padding	Soft	Pre-treatment concentrate for direct disperse printing on polyester.
PrintRite™ DP 318	10	Invisible	Padding	Soft	Pre-treatment concentrate for pigment inks on cotton and cotton-polyester blends.
PrintRite™ DP 328	750	Matte	Various	Medium	A tough absorbent matte coating suitable for ink jet printing with excellent image quality, color delity, and water resistance.
PrintRite™ DP 339	600	Matte	Various	Medium	A formaldehyde-free tough absorbent matte coating suitable for ink jet printing with excellent image quality, color delity, and water resistance.
PrintRite™ DP 350	4,000	Glossy	Various	Medium	Good overall properties, rapid ink drying.
PrintRite™ DP 351	700	Glossy	Various	Medium	Rapid ink drying. The low viscosity allows a wide range of application methods.



FLAME RETARDANT ADDITIVES

	Additive	Solids (%)	pH	Viscosity (cP)	Description/Suggested Uses
FLAME RETARDANT DISPERSIONS	Performax™ 401	68	9	3500	Aqueous dispersion of antimony trioxide.
	Performax™ 910	68	9	3500	Aqueous dispersion of a proprietary brominated "deca" replacement.
	Performax™ 911	68	9	3500	1:1 Ratio (Performax 910 : Performax™ 401)
	Performax™ 920	68	9	3500	REACH compliant version of the Performax™ 910
	Performax™ 921	68	9	3500	2:1 Ratio (Performax™ 910 : Performax™ 401)
	Performax™ 931	68	9	3500	3:1 Ratio (Performax™ 910 : Performax™ 401)
	Performax™ 941	68	9	3500	4:1 Ratio (Performax™ 910 : Performax™ 401)
	Performax™ 951	68	9	3500	5:1 Ratio (Performax™ 910 : Performax™ 401)



SYNTHETIC THICKENERS FOR COATINGS AND PRINTING

	Product	Solids (%)	pH	Specific Gravity	Viscosity (cP)	Description/Suggested Uses
THICKENERS FOR COATINGS	Solthix™ A100	30	3	1.06	10	Hydrophobically modified alkali-swellable acrylic emulsion. Highly efficient with strongly shear-thinning profile. Prevents settling of inorganic particles at low dosages.
	Solthix™ A200	30	3	1.05	10	Alkali-swellable emulsion thickener. Efficient, short rheology.
	Solthix™ A300	18	3	1.04	10	Alkali-swellable emulsion thickener. Imparts a longer flow than Carbopol EP-1, to control penetration.
	Solthix™ A301	35	3	1.06	10	Highly efficient alkali-swellable emulsion thickener. Short rheology.
THICKENERS FOR PRINTING	Solthix™ T21810	>97	8.5	1.4	(0.5%) 35,000	Very efficient powder thickener for pigment printing applications. Generally used to make liquid concentrate fully neutralized and ready to use.

Lubrizol Locations

NORTH AMERICA

Lubrizol Advanced Materials, Inc.
9911 Brecksville Road
Brecksville, OH 44141 USA
+1.800.380.5397

EUROPE

Lubrizol Limited
PO Box 42, Hexagon Tower
Blackley, Manchester
M9 8ZS United Kingdom
+44 161 721 6800

ASIA-PACIFIC

Lubrizol Specialty Chemicals
(Shanghai) Co., Ltd
10/F, Park Center International
No. 1088 Fang Dian Road
Shanghai 201204, PR China
+8621-3866-0366

SOUTH AMERICA

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 advanced coatings, inks, and composites. Our portfolio of resin and additive technologies solve challenges across a wide range of markets and applications. Formulators choose Lubrizol to achieve unique performance, productivity, and sustainability benefits. More than just a supplier, we are a collaborator with extensive experience in surface protection, dispersion, adhesion, and barrier properties – working closely with customers to explore and develop truly differentiated solutions.

Lubrizol | Performance Coatings

The majority of products featured in this brochure are FDA and EU compliant with regulations pertaining to food contact. Additional information is available upon request or via your local Lubrizol representative.

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