

Providing Creative Solutions



Graphic Arts Polymers

Serving the Graphic Arts Industry...



- > Waterbased Emulsions and Resin Solutions
- > Organic Processing
- > Foam Control
- > Chemical Distribution



Hydrite Chemical Co. is a full-service, customer-oriented supplier of styrene/acrylic emulsion polymers and solutions to the waterbased ink and overprint varnishes industry. Our HydriPrint™ Lucidene™, and Hydricryl™ product lines offer the formulator a wide range of performance attributes in meeting application requirements.

Our dedicated R&D, and technical service staff has extensive knowledge and experience in solving your most challenging formulating problem. With a commitment to quality and customer responsiveness, our goal is to service the North American graphic arts market with superior products and innovative solutions.



Polymers for Graphic Arts

PRODUCT	SOLIDS	pH	VISCOSITY cP	Tg C	AN	COMMENTS
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HYDRIPRINT EMULSIONS

HydriPrint 382	49	8.5	750	103	43	Ultra fast dry extender for gravure and flexo inks.
HydriPrint 112	45.5	8.8	800	100	75	Ultra High Rub resistant polymer additive for inks and overprints.
HydriPrint 399	45.5	8.8	1150	100	75	Hard polymer with high gloss and good holdout for paper and paperboard inks.
HydriPrint 396	43.5	8.5	1100	95	102	MWM polymer for with high gloss for economical overprints.
HydriPrint 376	48	8.4	1000	70	59	Hard film former, fast dry speed and good resolubility.
HydriPrint 330	44	8.4	890	30	80	MWM polymer with outstanding wetting for versatile performance OPV's.
HydriPrint 335	47	8.4	1500	20	59	Hard but flexible, good grease and water resistance for overprints.
HydriPrint 980	45.5	8.8	800	39	129	Superior gloss film-former for overprints.

NEUTRAL pH EMULSIONS

HydriPrint 4020	39	7.3	600	95	100	MWM neutral polymer for economical inks.
Lucidene 4015	42	7.1	800	90	130	High gloss, hard polymer with excellent resolubility and transfer.
Lucidene 4035	42	7.1	700	35	130	Excellent clarity, stability, resolubility for narrow web inks.
Lucidene 4045	43	7.1	1000	-30	90	Soft film former with excellent adhesion and resolubility.

PRODUCT	SOLIDS	pH	VISCOSITY cP	Tg C	AN	COMMENTS
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LUCIDENE EMULSIONS

Lucidene 370	48.0	8.4	1500	105	60	Fast drying, high speed printing for paper and paper board inks.
Lucidene 395	44.5	8.4	1200	100	75	High gloss and holdout for overprint formulations.
Lucidene 361	50	8.1	3000	74	25	Excellent opacity and hiding power in corrugated inks.
Lucidene 602	42.5	8.7	1500	45	112	Gloss inks and overprints, excellent transfer and rewet.
Lucidene 608	41.5	8.5	500	44	160	Crosslinkable with Zn for heat resistance, foil inks.
Lucidene 374	44.5	8.5	1400	40	82	Block resistance, excellent flow properties for overprints.
Lucidene 351	37	7.3	300	21	100	Lamination ink vehicle with adhesion and high bond strengths.
Lucidene 603	48	8.1	1250	11	53	Good adhesion, gloss and water resistance.
Lucidene 243	48	8.3	1500	7	50	Fast dry with good grease resistance for inks and primers.
Lucidene 645	43	7.1	500	-22	10	Acrylic urethane with high gloss, alkaline and detergent resistance.
Lucidene 605 NV	47.5	8.1	1500	-42	53	Maximum adhesion, water resistance, low VOC.

COLLODIALS

Lucidene 141	33	8.3	600	50	34	Fast dry and excellent rewet for low basis weight paper.
Lucidene 190	40	2.0	30	33	88	Excellent transfer and printability with high dilution profile.
HydriPrint 150	35	8.5	1400	39	87	Viscosity stability over a wide pH range.
Lucidene 400	25	7.8	2500	35	171	Highly dilutable economic extender for corrugated inks.



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STYRENE/ACRYLIC SOLUTIONS

Hydricryl 132	30	8.6	1375	105	215	Gloss, block, transfer and resolubility modifier.
Hydricryl 132HV	32	8.9	5500	105	220	High viscosity mid range MW resin solution.
Hydricryl 135	34	8.7	3000	105	220	High solids, mid range MW resin solution for use in inks and overprints.
Hydricryl 410	35	9.4	6000	105	215	High pigment load dispersions, excellent stability, use with Neutral pH systems.
Hydricryl 430	31	7.3	500	105	240	High gloss, excellent resolubility and transfer, use in Neutral pH systems.
Hydricryl 460	36	7.7	600	105	240	Maximum pigment wetting. High pigment loads at stable low viscosity.
Hydricryl 345	45	9.0	3000	72	250	Low Mw. High gloss for overprints.



PRODUCT

175.105 175.300 175.320 176.170 176.180

LIMITATIONS - DESCRIPTION

21 CFR REFERENCES FOR HYDRIPRINTS, LUCIDENES, AND MORCRYLS

HydriPrint 330	X	X ¹		X ^{3,4}	X
HydriPrint 335	X			X ^{3,4}	X
HydriPrint 376	X			X ^{3,4}	X
HydriPrint 382	X				X
HydriPrint 396	X	X ¹		X ^{3,4}	X
HydriPrint 4020	X	X ¹	X ²	X ^{3,4}	X
Lucidene 243	X			X ^{3,4}	X
Lucidene 370	X				X
Lucidene 395	X			X ^{3,4}	X
Lucidene 4015	X			X ^{3,4}	X
Lucidene 4035	X			X ^{3,4}	X
Lucidene 4045	X	X ¹	X ²	X ^{3,4}	X
Lucidene 602	X				X
Lucidene 605 NV	X			X ^{3,4}	X
Lucidene 608	X			X ^{3,4,5}	X
Hydricryl 132 HV	X	X ¹	X ²	X ^{3,4}	X
Hydricryl 132	X	X ¹	X ²	X ^{3,4}	X
Hydricryl 135	X	X ¹	X ²	X ^{3,4}	X
Hydricryl 345	X				
Hydricryl 410	X				X
Hydricryl 430	X	X ¹	X ²	X ^{3,4}	X

- 1 For use only in contact with food of Types IV-A, V, and VII in table 1 of paragraph (d) of this section, under use conditions E through G in table 2 of paragraph (d), and with food of Type VIII without use temperature restriction.
- 2 For use only in contact with foods of Types IV-A, V, and VII in table 1 of 176.170(c) of this chapter, under use conditions E through G in table 2 of 176.170(c), and with foods of Types VIII and IX without use temperature restriction.
- 3 Provided that the Food Contact Surface of the paper and paperboard complies with extractive limitations in 21 CFR 176.170 paragraph (c).
- 4 For use only in contact with foods of Types IV-A, V, and VII in table 1 of paragraph (c) of this section, under use conditions E through G in table 2 of paragraph (c), and with foods of Types VIII and IX without use temperature restriction.
- 5 For use only as a coating or compound of coating and limited for use at a level not to exceed 16 percent by weight of paper or paperboard substrate.





If you're looking for a comprehensive chemical partner with your profitability in mind, call 866-554-2878 and learn how we will help you simplify your chemical program, streamline logistics and reduce your operating costs.

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