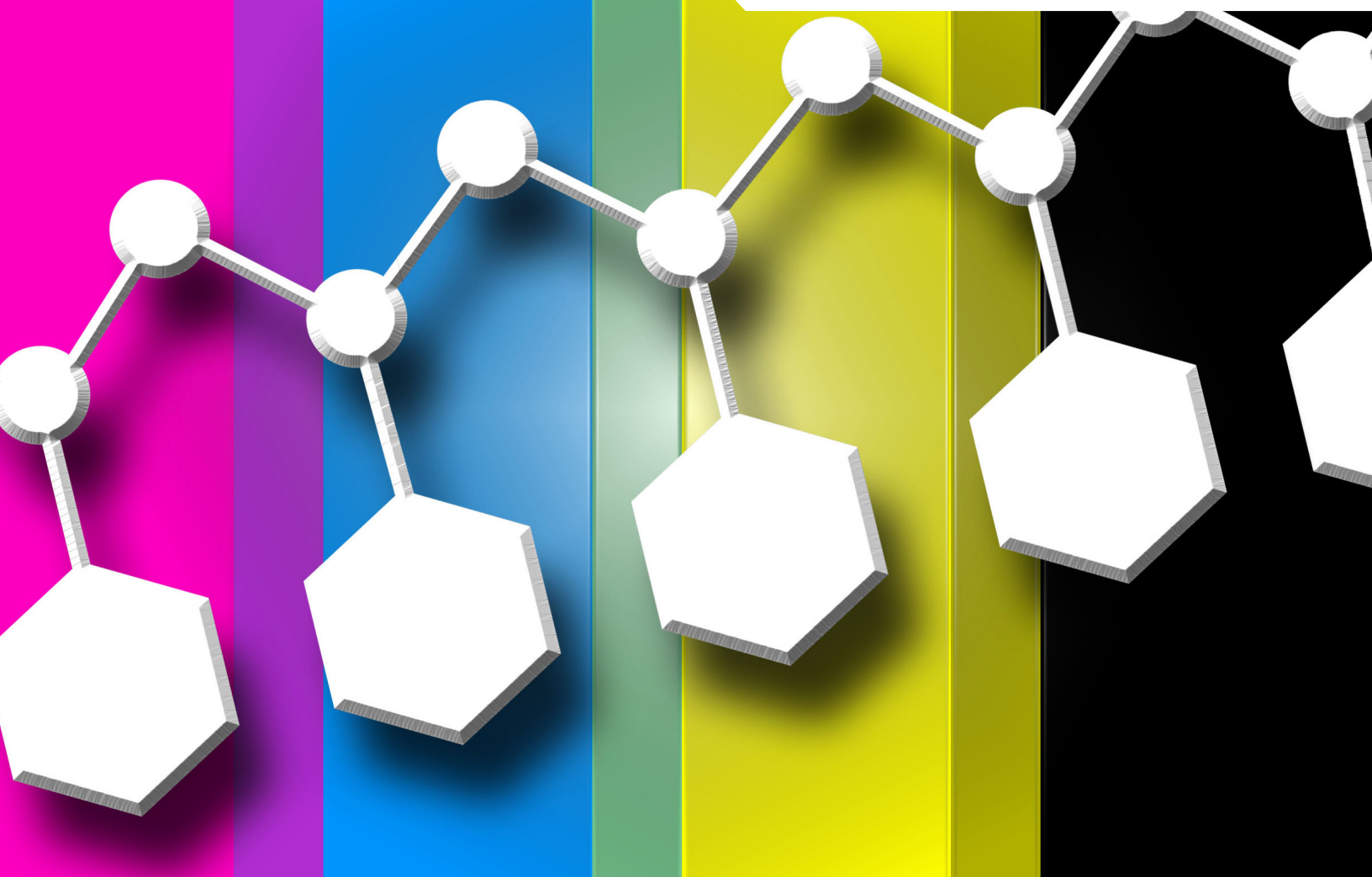


Providing Creative Solutions



Graphic Arts Polymers

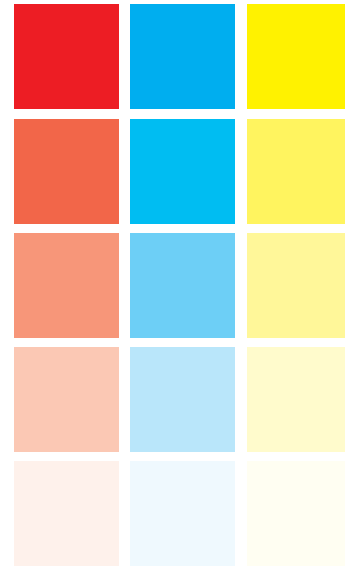


HYDRITE CHEMICAL CO.

Serving the Graphic Arts Industry...

Hydrite Chemical Co. is a full-service, customer-oriented supplier of styrene/acrylic emulsion polymers and solutions to the waterbased ink and overprint varnish industry.

Our HydriPrint™ 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 problems. 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

Polymers for Graphic Arts

PRODUCTS SOLIDS pH VISCOSITY CP Tg C AN COMMENTS

HARD NON-FILM FORMING EMULSIONS

PRODUCTS	SOLIDS	pH	VISCOSITY CP	Tg C	AN	COMMENTS
HydriPrint 370 LV	48.0	8.4	1000	103	55	Fast drying, high speed printing for paper and paperboard inks.
HydriPrint 382 HV	49.5	8.5	750	103	43	Ultra fast dry extender for gravure and flexo inks.
HydriPrint 399	45.5	8.8	1400	100	70	Hard polymer with high gloss and good holdout for paper and paperboard inks.
HydriPrint 395	45.5	8.6	1200	100	70	High gloss and holdout for overprint formulations.
HydriPrint 396	43.5	8.4	1150	95	62	MWM polymer with high gloss for economical overprints.
HydriPrint 361	50.5	8.1	2500	74	25	Excellent opacity and hiding power in corrugated inks.

HARD FILM FORMING EMULSIONS

PRODUCTS	SOLIDS	pH	VISCOSITY CP	Tg C	AN	COMMENTS
HydriPrint 376	48.5	8.4	1000	70	55	Hard film former, fast dry speed and good resolubility.
HydriPrint 602	41.5	8.7	1500	45	105	Gloss inks and overprints, excellent transfer and rewet.
HydriPrint 608	41.5	8.5	500	44	160	Crosslinkable with Zn for heat resistance, foil inks.
HydriPrint 374	43.0	8.5	1400	40	80	Block resistance, excellent flow properties for overprints.
HydriPrint 980	45.5	8.8	800	39	127	Superior gloss film former for overprints.

PRODUCTS SOLIDS pH VISCOSITY CP Tg C AN COMMENTS

FILM FORMING EMULSIONS

PRODUCTS	SOLIDS	pH	VISCOSITY CP	Tg C	AN	COMMENTS
HydriPrint 330	44.0	8.3	1100	30	50	MWM polymer with outstanding wetting for versatile performance OPV's.
HydriPrint 335	47.0	8.4	1500	20	55	Hard but flexible, good grease and water resistance for overprints.
HydriPrint 603	48.0	8.3	1250	11	50	Good adhesion, gloss and water resistance.
HydriPrint 243 LV	48.5	8.3	1400	7	46	Fast dry with good grease resistance for inks and primers.
HydriPrint 604	49.0	8.0	1500	-20	50	Excellent adhesion, gloss and water resistance for inks and primers.
HydriPrint 605 NV	47.0	8.0	1500	-42	50	Maximum adhesion, water resistance, low VOC.

COLLOIDALS

PRODUCTS	SOLIDS	pH	VISCOSITY CP	Tg C	AN	COMMENTS
HydriPrint 141	33.0	8.3	600	50	34	Fast dry and excellent rewet for low basis weight paper.
HydriPrint 150	35.0	8.7	1400	39	87	Viscosity stable over a wide pH range.
HydriPrint 400	26.0	7.9	2500	35	171	Highly dilutable economic extender for corrugated inks.
HydriPrint 190	40.0	2.0	30	33	88	Excellent transfer and printability with high dilution profile.

Polymers for Graphic Arts

21 CFR REFERENCES FOR HYDRIPRINTS AND HYDRICRYLS

PRODUCTS SOLIDS pH VISCOSITY T_g C AN COMMENTS

SPECIAL APPLICATION EMULSIONS

PRODUCTS	SOLIDS	pH	VISCOSITY CP	T _g C	AN	COMMENTS
HydriPrint 112	46.0	8.7	1550	100	72	Ultra high rub resistant polymer additive for inks and overprints.
HydriPrint 351	37.0	7.3	175	21	100	Lamination ink vehicle with adhesion and high bond strengths.
HydriPrint 645	44.5	7.1	450	-22	10	Acrylic urethane with high gloss, alkaline & detergent resistance.

NEUTRAL pH EMULSIONS

PRODUCTS	SOLIDS	pH	VISCOSITY CP	T _g C	AN	COMMENTS
HydriPrint 4015	43.0	7.2	800	90	130	High gloss, hard polymer with excellent resolubility and transfer.
HydriPrint 4035	43.0	7.2	700	35	130	Excellent clarity, stability, resolubility for narrow web inks.
HydriPrint 4045	43.5	7.2	1000	-30	90	Soft film former with excellent adhesion and resolubility.

STYRENE/ACRYLIC SOLUTIONS


PRODUCTS	SOLIDS	pH	VISCOSITY CP	T _g C	AN	COMMENTS
HydriCryl 130-S	31.0	9.0	4000	120	215	High MW, gloss, block, transfer, resolubility modifier.
HydriCryl 132	30.0	8.8	1375	105	215	Gloss, block, transfer and resolubility modifier.
HydriCryl 132HV	31.5	8.9	5500	105	215	High viscosity mid range MW resin solution.
HydriCryl 345	45.0	9.0	3000	82	250	Low MW, high gloss for overprints.
HydriCryl 410	34.5	9.5	5750	105	215	High pigment load dispersions, excellent stability.
HydriCryl 430	31.5	7.3	950	105	240	High gloss, excellent resolubility and transfer, use with Neutral pH systems.
HydriCryl 460	36.0	7.7	650	105	240	Maximum pigment wetting. High pigment loads at stable low viscosity, use with Neutral pH systems.

PRODUCT 175.105 175.300 175.320 176.170 176.180

PRODUCT	175.105	175.300	175.320	176.170	176.180
HydriPrint 243 LV	X			X ^{3,4}	X
HydriPrint 330	X			X ^{3,4}	X
HydriPrint 335	X			X ^{3,4}	X
HydriPrint 370 LV	X			X ^{3,4}	X
HydriPrint 376	X			X ^{3,4}	X
HydriPrint 382 HV	X				X
HydriPrint 395	X			X ^{3,4}	X
HydriPrint 396	X			X ^{3,4}	X
HydriPrint 399	X			X ^{3,4}	X
HydriPrint 4015	X			X ^{3,4}	X
HydriPrint 4035	X			X ^{3,4}	X
HydriPrint 4045	X	X ¹	X ²	X ^{3,4}	X
HydriPrint 602	X				X
HydriPrint 604	X			X ^{3,4}	X
HydriPrint 605 NV	X	X ¹		X ^{3,4}	X
HydriPrint 608	X			X ^{3,4,5}	X
HydriPrint 980	X				X
HydriCryl 130-S	X	X ¹	X ²	X ^{3,4}	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 345	X				X
HydriCryl 410	X			X ^{3,4}	X
HydriCryl 430	X	X ¹	X ²	X ^{3,4}	X

LIMITATIONS-DESCRIPTION

- 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 Type VIII without use temperature restriction.
- 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.
- Provided that the Food Contact Surface of the paper and paperboard complies with extractive limitations in 21 CFR 176.170 paragraph (c).
- 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.
- 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.



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