

Graphic Arts



Serving the Graphic Arts Industry

Hydrite is a full-service, customer-oriented supplier of styrene/acrylic emulsion polymers and solutions for the water-based ink and overprint varnish industry. Our HydriPrint™ and HydriCryl™ product lines provide formulators with a wide range of performance attributes to help meet diverse application requirements.

HydriPrint™

Hydrite's emulsions have a long history of quality and performance in the water-based ink and coating market. Supported by a full-service, state-of-the-art laboratory, Hydrite provides technical expertise, analytical capabilities, and solutions for ink, overprint varnish, and foam control applications.

- Fast dry speed
- Outstanding resolubility
- Excellent transfer and printability substrates
- Superior adhesion to a wide variety of flexible

Applications

- Pigment Dispersion
- Paper
- Paperboard
- Film Inks
- High Gloss Functional Overprints
- Light Industrial Coatings

HydriCryl™

Hydrite's product line includes a full range of styrene/acrylic technologies that continues the tradition of meeting the needs of flexo and gravure ink producers as well as water-based paint and coating manufacturers.

- Excellent resolubility and transfer
- High gloss and pigmentation
- Good paint wetting
- Industry expertise
- Products manufactured in the USA



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

Hard Non-Film Forming Emulsions

Products	Solids	pH	Viscosity CP	Tg °C	AN	Comments
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 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	Good 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 245 LV	48.5	8.3	1400	43	46	Fast drying with good adhesion for inks and primers.

Film Forming Emulsions

Products	Solids	pH	Viscosity CP	Tg °C	AN	Comments
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.

Special Application Emulsions

Products	Solids	pH	Viscosity CP	Tg °C	AN	Comments
HydriPrint 351	37.0	7.3	175	21	100	Lamination ink vehicle with adhesion and high bond strengths.

Neutral pH Emulsions

Products	Solids	pH	Viscosity CP	TG °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	TG °C	AN	Comments
HydriCryl 132	30.0	8.8	1375	105	215	Gloss, block, transfer and resolubility modifier.
HydriCryl 132 HV	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.

CFA References

Product	175.105	175.300	175.320	176.170	176.180
HydriPrint 243 LV	X			X ^{3,4}	X
HydriPrint 245 LV	X			X ^{3,4}	X
HydriPrint 335	X			X ^{3,4}	X
HydriPrint 376	X			X ^{3,4}	X
HydriPrint 395	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}	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

1. For use only in contact with food of Types IV-A, V, and VII in table 1 of paragraph (d), and with food 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.

FOR MORE INFORMATION:
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Trusted, Technical, and Dependable

The Hydrite Advantage:
Technical Expertise
Manufacturing Capabilities and Flexibility
Quality Products
Innovative Solutions

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