Gellner Industrial, LLC

water based industrial polymers

www.gellnerindustrial.com

Polymers for Industry

- Printing Inks – Graphic Arts Applications
- Paint Additives – Generating Low VOC Paints
- Industrial Coatings – Chemicals Resistance

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Ottopol Product Guide

Name	Solids	pH	Viscosity	Tg	Attributes
Anionic Polymers					
151	49-51%	7.5-8.5	500 cps Max	-25	Early water resistance in 4 hours, excellent for elastomeric roof coatings
300	45-47%	8.0-9.0	40-500 cps	5	Low odor, low dirt pick-up, low foam. Cement sealer
1320	49-51%	8.0-10.0	500 cps Max	18	Tough, UV, chemical, abrasion & wear resistance. Tolerant to alkali; retards efflorescence sealers for terrazzo and masonry. Traffic paints and other exterior applications
1450	42.5-43.5	7.0-9.0	500 cps Max	24	Good UV, chemical, abrasion & wear resistance. Good clarity, good compatibility with polyurethane dispersions. Wood finishes & cement sealers
1960	61-63%	4-0-6.0	500 cps Max	-42	Excellent adhesion to most substrates, flash rust protection. High solids, high performance sealants & patching compounds. Contact adhesives and coatings
25-50E	49-51%	6.0-7.0	250-2000 cps	43	Converts into low cost solution polymer for pigment grinding and high gloss flexo and gravure inks
25-30	29-31%	8.0-9.0	2000-4000 cps	43	Ammonia cut version of 25-50E. Solution polymer with good adhesion to non-porous surfaces
AR-150	39-41%	8.0-9.0	500-1000 cps	40	Excellent alkali resistance when dried at 150 F.
CS-58	44-46%	8.0-9.0	200-500 cps	12	Binder for house paints and binder for pigment dispersion
G-35	29-31%	8.0-9.0	200-400 cps	48	Solution polymer with acid number of 200. Suitable as grinding vehicle and high gloss inks & varnishes
M-30	29-31%	7.0-8.0	1000-2000 cps	43	DMEA cut version of 25-50E. Suitable for metallic and florescent inks
M-49	48-50%	8.0-9.0	200-500 cps	20	Acrylic Emulsion for Metallic ink or paint vehicle. Excellent adhesion properties, exceptional stability and brilliance with metallic pigments. Also, has good water resistance
S-30	42-44%	8.0-9.0	500-1500 cps	-20	Emulsion with low Tg for adhesion to plastic films. Suitable for flexo or gravure
S-50	42-44%	8.0-9.0	500-1500 cps	0	Emulsion polymer with good adhesion to non-porous surfaces
S-75	43-45%	8.0-9.0	500-1500 cps	25	Film forming emulsion polymer suitable for inks & coatings on paper and board
S-100	43-45%	8.0-9.0	500-1500 cps	50	Non-film form emulsion polymer for glossy flexo and gravure inks
SX-30	40-42%	8.0-9.0	500-1500 cps	-20	Self cross-linking emulsion for flexo or gravure printed films
SX-50	40-42%	8.0-9.0	500-1500 cps	0	Self cross-linking emulsion with good adhesion to non-porous surfaces
SX-75	41-43%	7.5-8.5	500-1500 cps	25	Self cross-linking emulsion with good gloss for flexo and gravure printing
SX-100	41-43%	8.0-9.0	500-1500 cps	50	Self cross-linking emulsion, non-film forming for glossy flexo and gravure inks

Name	Solids	pH	Viscosity	Tg	Attributes
SF-42	41-43%	7.5-8.5	100 cps Max	5	Compatible with water reducible alkyds
SF-45	44-46%	7.5-8.5	100 cps Max	39	Self cross-linking emulsion, non-film forming for Furniture Coating, Excellent Alcohol Resistance
SF-49	48-50%	7.5-8	500 cps Max	5	The dry film has outstanding water resistance and will not blush even after prolonged exposure to water. This polymer can be formulated into a corrosion resistant primer or semi-gloss plant

Non-Ionic Polymers

502	42-43%	6.5-7.5	200 cps max	88	Hard non-film forming polymer, used to provide block resistance and maintain good resistance properties.

Hydroxyl Functional Polymers that are Low Temperature Cure (220°F)

523	44-46%	6.5-7.5	500-1500 cps	105	Hard acrylic emulsion with Hydroxyl functionality, crosslinks with melamine and epoxy resins for excellent solvent resistance. Used as a coating for metal. This polymer when cured has excellent resistance to many solvents and liquids. Also has salt fog resistance.
510-28	27-29%	8.0-9.0	2000-4000 cps	32	Flexible solution with Hydroxyl functional acrylic, crosslinks with melamine and epoxy resins. Excellent salt fog resistance

Cationic Polymers

K-12T	42-44%	5.0-6.0	200-800 cps	0	Acrylic Emulsion polymer for rust converting primer. Converts rust to black iron oxide. Stain Blocking Primer. Forms a resistant barrier to water soluble tannins and prevents topcoats from staining and retarded drying. It is resistant to tannin and nicotine stains and out performs all other attempts of solving the bleeding of stains.
KO	42-44%	4.5–5.5	200-800 cps	0	Styrene Acrylic stain blocking polymer. Resists tannin oils, mildew, water stains and markers. Increased stain blocking over K-12T.
K-362	29-31%	5.0-6.0	200-400 cps	43	Solution polymer for alkali resistance and adhesion to non-porous substrates
K-633	27-29%	5.0-6.0	200-400 cps	44	Solution polymer for alkali resistance and adhesion to non-porous substrates, improved solubility
K-23	41-43%	5.0-6.0	200-500 cps	26	Emulsion polymer for alkali resistance and adhesion to non-porous substrates

Name	Solids	pH	Viscosity	Tg	Attributes
K-65	35-37%	5.0-6.0	200-800 cps	81	Hard emulsion polymer for alkali resistance. Non- ionic pigment concentrates can be let down with K-65 to produce printing inks and coatings. A clear coating or overlay varnish may be formulated as well. The addition of a coalescent solvent such as Texanol will aid in film formation. The positive charge allows inks and coatings to have exceptionally good adhesion to plastic films: Mylar, PVC, and polystyrene. Adhesion to foil and other metallic surfaces is excellent.
K-66	39-41%	5.0-6.0	200-500 cps	87	Hard emulsion polymer for alkali resistance
KX-99	29-31%	5.0-6.0	300-800 cps	32	Hydroxyl Functional Cationic Acrylic Solution, crosslinks at ambient or elevated temperature for solvent resistant coating
KX-101	37-39%	5.0-6.0	500-1500 cps	32	Hydroxyl Functional Cationic Acrylic Emulsion, crosslink at room temperature with polyisocyanates and epoxy silanes.

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