Gellner Industrial, LLC

Your Source for Acrylic Water-Based Polymers

We didn't invent water-based polymers.
We **perfected** them.

Your Premiere Acrylic Polymer Manufacturer

Gellner Industrial, LLC is the premier manufacturer of water-based acrylic polymers, bringing over 40 years of industry experience to our client base. Gellner Industrial manufactures a vast assortment of water-based acrylic polymers that can be used to produce premium-quality acrylic resins and chemicals. These products are valuable in a wide variety of applications, including printing inks, high-gloss varnishes and an array of industrial coatings.

Our extensive product knowledge and specialized manufacturing processes ensure complete product conformance and quality assurance. A market-driven company, Gellner Industrialis committed to identifying and satisfying the unique and ever-changing needs of our customers.

Polymers for Vinyl Applications

High-performance coatings for vinyl require the durable properties of Gellner Industrial acrylic polymers. We supply acrylic polymers that provide exceptional results when superior adhesion to vinyl is necessary.

Our polymers meet the high alkali resistance required of floor coating and wall coating applications. They also produce high-quality inks that work well with a variety of vinylsubstrates. Gellner Industrial acrylic polymers offer a unique combination of hardness along with superior stain and chemical resistance.

In high-performance coatings and inks, our acrylic polymers provide:

- **Superior adhesion to vinyl**
- **Low moisture transmission rate**
- **Resistance to acids and alkalis**
- **Excellent abrasion properties**
- **Stain resistance**
- **Corrosion resistance**

Acrylic Resins and Chemicals

Gellner Industrial's water-based acrylic polymers produce acrylic resins with exceptional properties. In fact, it is not uncommon for our customers to tell us that our acrylic resins and chemicals adhere better than anything else on the market.

High Performance Resins and Chemicals

The adhesion and hardness characteristics of our water-based acrylic polymers allow for bonding to a diversity of substrates. When used in the formulation of acrylic resins, they offer remarkable resistance qualities to all types of exposure, including chemicals, water and alkaline cleaners.

An acrylic resin made with Gellner ndustrial polymers can also be used to replace harsh chemical solvents in acrylic coatings allowing for more environmentally-friendly products.

Toll Manufacturing

We also handle toll manufacturing requests, providing exceptional, cost-savings services for our customers. We have plenty of manufacturing skills and specialized equipment to handle your toll manufacturing needs.

Wall Coatings

Wall coatings and other high-performance coatings produced from our specially formulated acrylic polymers offer excellent adhesion, abrasion and environmental resistance.

Floor Coatings

Floor coatings require a much higher abrasion resistance than wall coatings. Our acrylic polymers result in premium floor coatings that stand up to heavy traffic and high impact better than other high-performance coatings on the market.

High Performance Inks

Our polymers can be used to produce inks for vinyl substrates such as wallpaper or flooring. In addition to being impervious to plasticizer migration, inks produced with our polymers are fast-drying and highly flexible.

Our Newest Products

Anionic Polymers

Name	Solids	pH	Viscosity	Tg	Attributes
151	49-51%	8.5-9.5	500 cps Max	-25	Early water resistance in 4 hours, excellent for elastomeric roof coatings.
AR-150	39-41%	8.0-9.0	200-800 cps	40	Dry resin is impermeable to alkali without the use of crosslinking agents. Inks and overlay varnishes for soap boxes and household paper towels will not be effected by the high pH of the detergent cleaner used with the paper towels

Cationic Polymers

Name	Solids	pH	Viscosity	Tg	Attributes
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.

Non Ionic Polymers

Name	Solids	pH	Viscosity	Tg	Attributes
503	42-44%	6.5-7.5	100 cps Max	88	Hard non-film forming polymer, used to provide block resistance and maintain good resistance properties.
504	42-44%	6.5-7.5	100 cps Max	88	Hard non-film forming polymer, used to provide block resistance and maintain good resistance properties. APEO free version of 503.

Experience the Benefits of Working with Gellner Industrial

Gellner Industrial's water-based acrylic polymers produce acrylic resins with exceptional properties. We remain steadfast in our commitment to meet and fulfill your acrylic coating needs.

Call us today at **570.668.8800** for a free consultation or to request a sample order.

Ottopol Product Guide

Anionic Polymers

Name	Solids	pH	Viscosity	Tg	Attributes
151	49-51%	8.5-9.5	500 cps Max	-25	**NEW!** Early water resistance in 4 hours, excellent for elastomeric roof coatings
300	45-47%	8.0-9.0	500 cps Max	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	42.5-44.5%	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	200 cps Max	-42	Excellent adhesion to most substrates, flash rust protection. High solids, high performance sealants & patching compounds. Contact adhesives and coatings
25-25	24-26%	8.0-9.0	500-1000 cps	125	Water-soluble acrylic polymer resin designed to retard the drying rate of any water paint, printing ink
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	1500-4000 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	200-800 cps	40	**NEW!** Excellent alkali resistance when dried at 150 F.
CS-58	44-46%	6.5-7.5	500 cps Max	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	41-43%	8.0-9.0	200-500 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	41-44%	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
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

Name	Solids	pH	Viscosity	Tg	Attributes
503	42-44%	6.5-7.5	100 cps Max	88	**NEW!** Hard non-film forming polymer, used to provide block resistance and maintain good resistance properties.
504	42-44%	6.5-7.5	100 cps Max		**NEW!** Hard non-film forming polymer, used to provide block resistance and maintain good resistance properties. APEO free version of 503

Name	Solids	pH	Viscosity	Tg	Attributes
523	44-46%	6.0-7.0	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

Name	Solids	pH	Viscosity	Tg	Attributes
K-12T	42-44%	4.5 – 5.5	200-800 cps	0	Acrylic Emulsion polymer for rust-converting primer. Converts rust to black iron oxide. Stain Blocking. 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 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
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 ink 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	26	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
K-672	39-41%	5.0 – 6.0	500-1500 cps	10	Hydroxyl Functional Cationic Acrylic Emulsion Polymer. This polymer will crosslink at room temperature with polyisocyanates and epoxy silanes.

Ottopol Product	Ink	Industrial Coatings	Paint Additives	Paint Binders	Ottopol Product	Ink	Industrial Coatings	Paint Additives	Paint Binders
Anionic					**Non-Ionic**				
151		X			503	X			
300		X			504	X			
1320		X							
1450		X			**Hydroxyl Functional**				
1960		X			510-28	X	X		
25-25			X		523	X	X		
25-30	X		X						
25-50E	X				**Cationic**				
AR-150	X				K-12T		X		X
CS-58	X			X	KO				X
G-35	X				K-23	X	X		
M-30	X				K-362	X			
M-49	X				K-633	X			
S-30	X				K-65	X			
S-50	X				K-66	X			
S-75	X	X			K-672	X	X		X
S-100	X				KX-99	X	X		X
SX-30	X								
SX-50	X								
SX-75	X	X							
SX-100	X								
SF-42		X							
SF-45		X							

Your source for Water-Based Acrylic Polymers

www.gellnerindustrial.com

Polymers for Industry

- Printing Inks - Graphic Arts Applications
- Paint Additives
- Industrial Coatings - Chemicals Resistance

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A History of Scientific Innovation in Water-based Acrylic Resins

Our company and products have always been cutting-edge. Gellner Industrial's history is deeply rooted in scientific ingenuity–and that ingenuity is family tradition as well. Otto Gellner paved the way in 1980 for Gellner Industrial to become the leader in the synthetic resin industry.

In 1987, Otto's son, Robert, who had worked on and off for the company during college, officially joined the team. Over the next decades, Robert Gellner would continue to develop new formulas, while overseeing the company's expansion. Together in early 2000, the father-son duo built a new, state-of-the-art facility in Hometown, PA that continues to set the industry standard for industrial coatings and paints worldwide.

Founder, Otto Gellner

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