

PHENOLIC RESINS FOR COATINGS



PHENOLIC RESINS FOR COATINGS

Georgia-Pacific Chemicals brings decades of experience and a portfolio of proven phenolic products to enhance your coatings program. Areas of expertise include air dry and thermosetting systems, aqueous dispersions for lower VOC as well as crosslinkers for powder coatings.

Our products provide formulation latitude as they are compatible with many types of polymers including epoxies, polyesters, vinyl and acrylics while being soluble in water and a variety of solvents including alcohols and ketones. Products are also dilutable in aromatics. Recognized benefits

of GP® phenolic resins include chemical resistance, electrical resistivity, corrosion resistance and excellent adhesion to metal. Films made of phenolic resins can be used in abrasion resistant films and thermal barrier films.

The products below represent just some of our portfolio. We know that every application and formulation is different. Our knowledge of these resins provides us the foundation to select or develop the product that will meet your specific need.

EPOXY CROSSLINKERS (POWDER COATINGS)	Typical Applications	Characteristics	Free Phenol (%)	Melt Viscosity (Pa · s) @140°C	Softening Point (°C)
GP CL-7002	Powder coatings, electronic materials.	Crosslinking resin for epoxy and polyester resins. Low phenol content, advantageous softening point, melt viscosity.	0.2 max	Approx. 1.0	98-102
GP CL-7003	Powder coatings, electronic materials.	Crosslinking resin for epoxy and polyester resins. Low phenol content, advantageous softening point, melt viscosity.	0.2 max	Approx. 2.5	106-110
GP CL-7004	Powder coatings, electronic materials.	Crosslinking resin for epoxy and polyester resins. Low phenol content, advantageous softening point, melt viscosity.	0.2 max	Approx. 9.0	117-123

SOLID NOVOLAC RESINS	Typical Applications	Characteristics	Solids (%)	Color (Max) Gardner	Specific Gravity	Softening Point (°F)
GP CK-2500	Low VOC applications. Cold blend and cooked (reacted) coating applications. Maintenance and marine paint. Ink formulations.	Enables higher solids, lower viscosity solutions than GP CK-2400.	100	8	1.07-1.10	220-240
GP CK-2420	Air-dried alkyds. Marine and maintenance protective coatings.	Good oil solubility and low viscosity. Compatible with a variety of solvents. Improves water resistance, hardness, gloss and adhesion.	100	6	1.02-1.06	248-282
GP CK-2400	Cold blend coating applications. Marine and maintenance protective coatings.	Excellent water resistance, leveling, hardness, gloss and intercoat adhesion.	100	8	1.06-1.10	290-315
GP CK-2103	Air-dried alkyds and epoxies for protective coatings. Ink formulations.	Improves water resistance, hardness, gloss and adhesion. Will darken on drying.	100	5	1.06-1.08	215-245

WATERBORNE DISPERSIONS	Typical Applications	Characteristics	Solids (%)	Viscosity (cP)	Specific Gravity
GP BKUA-2353	Acrylic latex adhesives.	Water-based. Provides improved adhesion and green strength.	43-47	2000-5000	1.06-1.07
GP BKUA-2370	Latex and phenoxy polymers. Drum, pail, tank and railcar coatings and other metal protection.	Water-based. Good adhesion promoter. Effective crosslinker.	44-48	4000-9000	1.09-1.11
GP 4003	Latex and phenoxy polymers. Drum, pail and pipe coatings.	Water-based. Excellent corrosion resistance. Effective crosslinker.	44-48	1500-3500	1.08-1.12

SOLID RESOLE RESINS	Typical Applications	Characteristics	Softening Point (°F)	Certifications
GP BKR-2620	Nitrile adhesives and films for intercoat adhesion to vinyl organosols.	Used with epoxy, vinyl and acrylic polymers to improve performance without sacrificing flexibility. Provides excellent wetting characteristics and intercoat adhesion to vinyl organosols.	180-210	Compliant to FDA 21 CFR for 176.170 as resinous and polymeric coatings, 175.105, 175.300, 176.180 and 177.1210.

SOLUTION RESOLE RESINS	Typical Applications	Characteristics	Solids (%)	Viscosity (cP)	Specific Gravity	Certifications
GP BLS-2700	Metal primer. Protective coatings for drum, pail, tank, railcar and other metal protection. Wash primers.	Generally used with polyvinyl butyral to give crater-free films with enhanced flexibility. Similar to GP BKS-2600.	54-58	300-450	1.06-1.07	Compliant to FDA 21 CFR 175.300 and 177.1210.*
GP BKS-2640	Nitrile adhesives. Protective coatings for drum, pail and other metal protection. Plastisol primers.	The solution version of GP BKR-2620 and offers the same advantages. In addition, it can be formulated with minimal blending.	45-49	300-900	0.97-1.0	Compliant to FDA 21 CFR 175.300 and 177.1210.*
GP BKS-2600	Pipe coating, drum, pail and tank car linings.	Outstanding chemical resistance. General metal protection.	52-56	700-1000	1.04-1.07	Compliant to FDA 21 CFR 175.300 and 177.1210.*
GP BKS-2603	Pipe coating, drum, pail and tank car linings.	Chemical resistance. Better water compatibility than GP BKS-2600.	62-66	750-1500	1.09-1.12	Compliant to FDA 21 CFR 175.300 and 177.1210.*
GP BKS-2605	Drum coatings, rigid substrate coating. Lower VOC coatings.	Better adhesion than GP BKS-2603. Chemical resistance.	62-66	1000-2500	1.08-1.12	Compliant to FDA 21 CFR 175.300 and 177.1210.*

*Request information regarding other specific possible compliance.

ETHERIFIED RESINS	Typical Applications	Characteristics	Solids (%)	Viscosity (cP)	Specific Gravity
GP 7571	Protective coatings for can, drum, pail, pipe and other metal protection.	Maximizes chemical resistance. Heat-reactive phenolic resin solution in N-butanol.	68-72	2500-3700	Approx. 1.12
GP 7565	Protective coatings for can, drum, pail, pipe and other metal protection.	Low color, highly butylated. Outstanding chemical resistance.	68-72	2500-4000	Approx. 1.08
GP 7565 LF	Protective coatings for can, drum, pail, pipe and other metal protection. Used where light-colored coatings are required.	Low color, heat-reactive phenolic solution in N-butanol. Low free formaldehyde of less than .5%.	68-72	2500-4000	Approx. 1.08





1-866-4GP-CHEM
(447-2436)

GPchemical@gapac.com
www.gp-chemicals.com

Why Work with Georgia-Pacific Chemicals?

Our customers tell us four things make us different from other chemical suppliers.

- **EXPERTISE** – Experts to customize products for the unique chemical demands of the coatings industry.
- **RESOURCES** – Analytical and technological capabilities to evaluate the best products to meet your needs.
- **RELIABILITY** – Consistent, dependable quality stemming from a corporate principle of operational excellence.
- **INNOVATION** – A diverse line of innovative products designed for performance and value creation.



Georgia-Pacific
Chemicals

bonds that last. advancements that work.®

© 2018 Georgia-Pacific Chemicals LLC. All rights reserved. IND-0145-1808 GP, the GP logo, and bonds that last. advancements that work. are trademarks owned by or licensed to Georgia-Pacific Chemicals LLC. The information and technical data herein is believed to be accurate. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product. EXCEPT AS SET FORTH IN OUR STANDARD TERMS OF SALE REGARDING THE PRODUCT, NO WARRANTY, EXPRESS OR IMPLIED, IS MADE INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WHICH ARE SPECIFICALLY EXCLUDED. Nothing contained herein shall be construed as a license to operate under or recommendation to infringe any patents.

