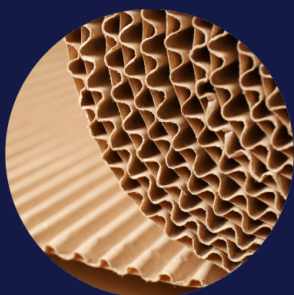


ELCO

Colorants & Additives



Paper Industry

For more than two decades, ChromaScape has led the industry in supplying the highest quality colorants and additives to the paper industry. Our network for global sourcing allows us to address marketplace challenges that demand new solutions which focus on ways to optimize paper coloring techniques. ChromaScape is focused on supplying our paper customers the highest quality products at cost effective pricing.

To survive in today's competitive marketplace our commitment does not end when your order is shipped. We back up all of our products with know-how. Whether it is product testing, shade matching, application expertise, color training or product development, ChromaScape is ready to serve you. Our sales force and our laboratories are staffed with experienced technical professionals who can assist with any technical problem our paper customers may experience today.

Colorant Selection Process & Application

No matter what the requirement, ChromaScape will be happy to evaluate your particular color application. Our technical staff will guide you through color selection, shade matching and physical testing criteria. We can assist in any process application from batch or continuous coloring to automated size press color correction. Whether you are tinting whites or deep dyeing tissue, ChromaScape has the experience to service and supply any colorant approach for paper.

Liquid Dyes

ChromoScape offers a full range of liquid direct and basic dyes that compliment our comprehensive powder line. Our liquid dyes are used in virtually all areas of paper manufacturing due to their physical form, ease of handling, elimination of dusting and suitability for systems with on-line color control.

Powder Dyes

While liquid dyes may be preferable where automated color control is used to produce pastel to moderate shades, powder dyes remain the product of choice where large volumes are used to produce very deep shades for fine paper and tissue. Since powder dyes are three to five times more concentrated than liquid dyes, smaller quantities are required.

Aqueous Pigment Dispersions

ChromoScape offers a full line of pigment dispersions formulated with a range of dispersants. Dispersant choice is critical for the intended end-use application. We offer organic, inorganic, synthetic and basic dyes. Our pigment lines are intended for laminate base papers, parchment papers, museum boards, high-quality printing papers, tinting whites and various non-woven applications.

Dye Fixing Agents

ChromoScape's cationic fixatives provide retention, bleed-fastness and effluent coloration improvement for anionic dyes and pigments. These products are available for tissue, toweling and fine paper grades.

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ChromaScape Value-Added Service - "Partners in Papermaking"

First and foremost, you can rely on ChromaScape to add value to your business. Our extensive range of colorants and specialty chemicals enhance the quality, performance and value of your products. With global sourcing, multiple manufacturing facilities and strategically located warehouses, ChromaScape is your single-source supplier. Give us a call so that we may become your "Partners in Papermaking."

Dye Classes Offered

ChromaScape offers a broad range of dyes and pigments to the paper industry.

Dye Class	Name	Liquid	Powder	Application
Direct	Elcomine® Pontamine®	Yes	Yes	Fine Paper and Tissue Grades
Acid	Elcoid® Acilan®	Yes	Yes	Calendar Staining
Basic	Elcozine® Verona®	Yes	Yes	Board and Un-Bleached Grades
Pigment	Elcoment® Halopont® Ponolith®	Yes	Yes	Inorganic, Organic - Dispersions available. Broad Range application.
FWA (Fluorescent Whitening Agent)	Elcowhite®	Yes	Yes	Wet End, Size Press, Coating
Fixative	Elcofix® Levogen® Mesitol®	Yes	No	Bleed fastness and Effluent improvement

Typical Packaging

- Powder dyes are supplied in either 55 gallon plastic, returnable drums or pre-packaged in white, re-pulpable paper bags that can be added to the stock preparation without opening. Bags may range in weight from 2 to 45 pounds net weight. Bags are delivered in a brown, recyclable box containing 1,000 to 1,500 pounds net which are placed on a wooden skid.
- Liquid dyes are supplied in either 35 or 55 gallon plastic, returnable drums and 275 to 330 gallon returnable totes. Liquid dyes can also be supplied in single or multi-compartment tank trucks with new weight up to 45,000 pounds.

Regulatory Compliance

Pre 1958 List - A list of colorants, compiled by the American Paper Institute that were used in food packaging papers prior to 1958. This list of colorants is considered acceptable for use in food packaging by the Food and Drug Administration. Regulatory requirements for our colorants and chemicals with regard to SDS, toxicology, ecology and FDA compliance are available. ChromaScape's Environmental, Health and Safety department is constantly working to ensure our products meet state and federal guidelines.

Legal Disclaimer: We do not guarantee performance and the user should perform their own testing to assess suitability in their application. User assumes all other risk and liability resulting from use of this product. No claims, representations or warranties, whether express or implied, are made by our company as to the safety, reliability, durability and performance of any of our company's products. In no event shall our company be liable for any direct, indirect, punitive, incidental, special consequential damages, to property or life, whatsoever arising out of or connected with the use or misuse of our products.



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03.2024