



Leading the Graphic Arts Industry Towards a Greener Future



Zeller+Gmelin
P r i n t i n g I n k s

Zeller+Gmelin continues to achieve the industries highest performance standards while minimizing the impact on the environment.

UV Inks for the Needs of the Future

Zeller+Gmelin has gathered the following information from various publications and internet web sites regarding the use of UV printing inks.

The United States Environmental Protection Agency's Design for the Environment Project has concluded that adopting the technology of UV Printing Inks can help reduce the potential for pollution, eliminate or reduce air emissions, and prevent the generation of hazardous wastes and other discharges.

www.epa.gov

UV curable materials function like a resin binder into which pigments or functional agents are dispersed. The coating is completely reactive so no material is lost or volatilized. There are no solvent emissions, either hazard or pollutant.

www.scana.com

UV inks allow for reduced wash up requirements on equipment, they are biodegradable and during incineration, the materials used in dried UV inks and varnish films break down so as not to contribute to the production of toxic emissions such as dioxins or PCBs.

www.gbp.it/UV_INK.html

Because UV printing cures instantly, there is no loss of coating thickness, due to evaporation, therefore the results are more units finished in less time, with much less waste, less energy use, and much lower pollutant emissions.

Fusion UV Systems, Inc.

Sustainability Statement

With today's environmental concerns becoming an increasingly important topic throughout the ink manufacturing industry, companies are searching for ways to make their products safer for the environment and the consumer. Our primary focus is to develop state of the art "green" UV ink products for sustainability that are environmentally and consumer friendly.

Solvent free ultraviolet energy curing printing is a low emission technology that has a proven record of success and has continued to grow substantially in the printing industry over the past decade. While the environmental benefits of this printing technology are well known, it is not as well recognized that the environmental benefits prove very favorable.

All eco-friendly printing processes and requirements will realize that the use of Zeller+Gmelin's UV printing inks will provide true "pollution prevention" technology. There are no emissions to control, destroy or recycle. In contrast, solvent and conventional oxidizing inks, which contain solvents, require additional operating costs and generate incremental greenhouse gases.

Our UV printing inks, which are manufactured with low to zero emission through ultraviolet energy curing, have been in commercial use for decades. In addition to performance advantages, the "green" benefits of these technologies have driven their acceptance and rate of growth substantially faster than conventional and even water-borne inks, coatings and adhesives. Our raw material product selection incorporates materials that generate less than one percent Volatile Organic Compounds (VOC's) upon curing. We have also incorporated a renewable soy component into our formulations successfully and our Technical Group will continue to investigate additional renewable components.

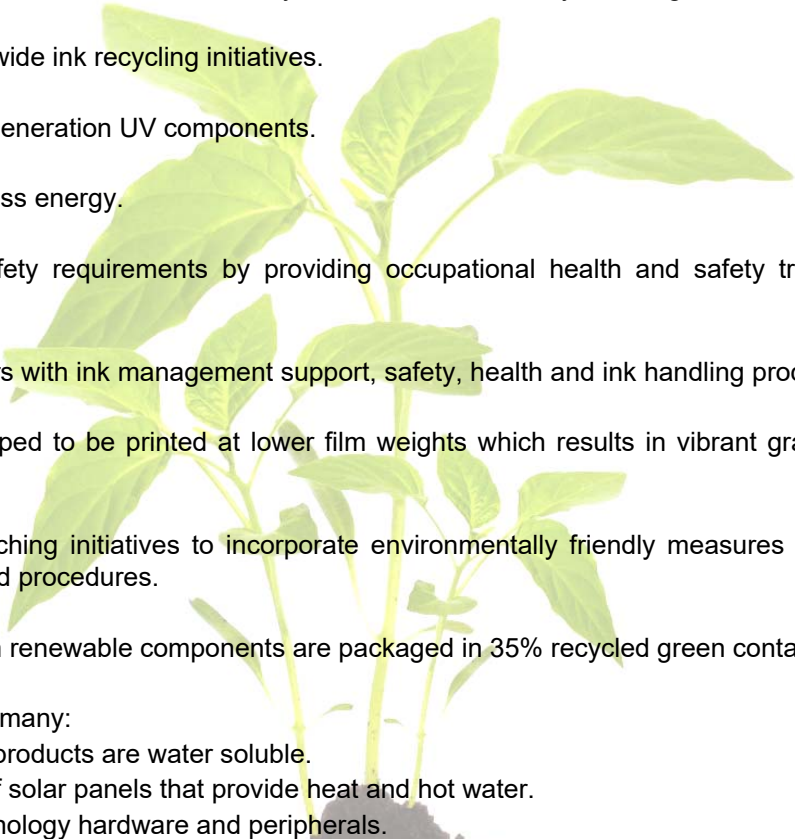
As our focus is exclusively on radiation curable printing inks, our resources have been and will continue to be dedicated to this market. Our manufacturing equipment and processes are designed and built with this in mind and our Research and Development efforts are dedicated solely to UV technology. We partner with companies and organizations involved in this industry to advance technology and growth potential.

Preserving and protecting the environment encompasses "green initiatives" that we contribute to in other areas of our organization.



Environmental Benefits

Zeller+Gmelin UV Inks are manufactured with low to zero emission through ultraviolet energy curing and have been in commercial use for decades. Our primary focus is to develop state of the art “green” UV ink products for sustainability that are environmentally and consumer friendly. We remain committed to providing the most environmentally beneficial products to the market.

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- We develop free radical chemistry.
 - Our products are formulated for faster make ready and excellent runability resulting in lower waste.
 - We engage in company wide ink recycling initiatives.
 - We utilize safer second generation UV components.
 - Our products consume less energy.
 - We actively address safety requirements by providing occupational health and safety training programs for all employees.
 - We provide our customers with ink management support, safety, health and ink handling procedures.
 - Our products are developed to be printed at lower film weights which results in vibrant graphics with less ink per impression.
 - We are currently researching initiatives to incorporate environmentally friendly measures internally to impact our company’s processes and procedures.
 - Our products that contain renewable components are packaged in 35% recycled green containers.
 - To list a few initiatives of many:
 - All floor cleaning products are water soluble.
 - Implementation of solar panels that provide heat and hot water.
 - Recycling of technology hardware and peripherals.

We are dedicated to providing products which ensure a clean and safe environment for future generations.

Our Commitment

Our commitment and focus to UV development, technology, training, manufacturing, quality, environment and its processes have been ongoing since 1970. Our expertise and experience enhances our global reputation as second to none. National and International, mutually beneficial partnerships and relationships have been built through integrity, cooperation, confidence and trust.

Proactive industry involvement enables Zeller+Gmelin Corporation to recognize, identify and analyze market requirements and trends. Instrumental and important new technologies are constantly pursued and developed to ensure the products we offer provide the viable competitive edge essential to excelling in today’s ever-changing environment.

Today, through commitment, performance and growth, Zeller+Gmelin Corporation products are utilized in over 75 countries – “Putting Color Into the World.”

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