

10/07

NOW - INK UP WITH CORKURE UV INKS

Cork, known for its innovative **Aqueous**, **UV**, & **EB** specialty coatings, varnishes and adhesives, is now introducing a line of “difference making”, best in class, **Corkure UV energy curing inks**. **Offset and Flexo Corkure UV blending systems** designed to match any color, while offering the printer new beneficial advantages, are now available. Also, **Corkure UV blending systems for letterpress, screen and rotary screen printing processes** are to be released shortly.



UV inks have been in use for some time. Paste **UV** inks for sheetfed and web offset processes have been marketed for several decades, and represent the oldest and largest **UV** ink market. Liquid **UV** inks, for flexo and gravure processes were developed later, mainly due to the difficulties in formulating effectively to meet low applied viscosity requirements, while maintaining 100% solids formulations.

The lithographic **UV** energy curing ink market has seen accelerating growth since the first product introductions in the 1960's. Sheetfed offset printing, using **UV** curable inks, is the largest volume **UV** printing process. **UV** web offset printing, **UV** screen, **UV** flexo, **UV** letterpress and fast growing **UV** inkjet, follows in order.

UV inks fundamentally are formulated of reactive monomers, resins (oligomers), photo initiators, pigments, and additives. The reality of superior ink performance is in the art of choosing select raw materials and formulating for advantages both on and off press.



Therefore, it can be said that there are **UV** inks and there are **UV** inks.

Newer technology is being marketed as is, lingering older technology.

Cork's new generation of technologically advanced **UV blending ink** formulations are based on years of expert formulating experience and selections from the latest available improved raw materials. The result is **Corkure UV blending systems** featuring printer sought after beneficial improvements.

Cork's Corkure Offset **UV** blending system offers an exceptional range of beneficial properties.

Notable among these are:

- **Exceptional very low misting**
- **High color strength**
- High transparency
- Superb print quality
- Extreme dot sharpness at the highest printing speeds
- Excellent rheology & litho properties
- Fast cure response up to 1200 fpm
- Excellent water balance
- Adhesion to a wide range of synthetic substrates
- Superior fade resistance for yellow magenta, cyan and black
- HDODA free
- Green low emission processing
- Excellent chemical & abrasion resistance

UV lithographic printing continues to be an advantageous choice for printers because of the inherent advantages of instantaneous drying, virtually zero VOC emissions, extremely high print quality at high printing speeds, and high chemical and abrasion resistance.

The Flexographic printing process has made great strides evolving from historically being a rather crude rubber stamp print process to a sophisticated high quality process that has been growing rapidly. Flexo is now the printing process of choice for the printing of packaging substrates, including essential flexible packaging films.

A key to this quality improvement was the industries adoption of the chambered doctor blade system of supplying ink to the anilox, which delivers a precisely metered quantity of ink to the printing plate. The plate too has undergone vast improvement with the adoption of photopolymer plates featuring fine line detail and the use of light kiss pressure.

UV energy curing was first adopted by the narrow web sector of the flexo industry, specifically for the label & tag market. This was a sensible result of the desired interest in low VOC attainment, higher print quality and product/abrasion resistance.

Cork's Corkure Flexo UV blending ink system offers a superb range of desirable properties to appeal to the flexo printer. Some of these are:

- Exceptional color strength
- Low viscosity
- Exceptional glossy & opaque white
- High transparency
- White for metallized substrates
- Non-thixotropic
- Superb print quality at the highest printing speeds
- Extreme dot sharpness-minimum dot gain
- Wide anilox range 200-1500
- Fast cure response up to 1200 fpm
- Excellent solvent and water resistance
- HDODA free
- Green low emission processing
- Adhesion to a wide range of materials
- Die cut-able



UV flexo printing continues to grow mainly in the narrow web sector, but now too in the wide web sector, with the availability of necessary lower viscosity ink & coating products.

The Flexo printing industry has the ability to utilize all of the advantages of UV to produce high quality printed, and if desired, coated end products. The use of UV energy curing inks and/or coatings results in instantaneous drying with in-line die-cutting productivity advantages, high quality, high speed print results, low VOC emissions, coupled with excellent product and chemical resistance to make UV the process of choice.

Want an advantage as a printer? Then TRY the latest in Offset & Flexo UV blending ink technology incorporating important advancements in color strength, and superb high speed print quality. Corkure UV flexo inks specifically offer low viscosity, exceptional color strength and two very glossy opaque whites, one for metallized substrates. Corkure offset inks offer very low misting characteristics coupled with very high color strength.

Specialty coating's, aqueous, energy curing Ultraviolet (UV), Electron Beam (EB), adhesives and now UV inks are our business at Cork Industries. Cork thrives on its ability to formulate novel, useful specialty products that offer the printer/coater an advantage.

LOOK TO CORK!

Whatever your product requirements-
Whatever your processes-

LOOK TO CORK!

For Corkote Aqueous, and Corkure UV & EB coatings, varnishes, adhesives and UV inks.

INK UP WITH CORK!

UV ink blending systems