



UV and LED UV inks for narrow web

PRODUCT DIRECTORY

SERICOL

Sericol UV and LED UV inks for narrow web

Label printing is a complex business that typically uses multiple print and conversion processes to create a highly engineered technical product. Inks and other materials can have a dramatic effect on the efficiency of the process, the cost of production, and the quality of the output.

Fujifilm offers a comprehensive range of inks and associated products that are specifically designed to maximise throughput and simplify the production process. It does this by focusing on the following key benefits:

Innovation

Products that allow printers to use a more efficient print technology. A prime example of this is Flexo JD752 Supernova White that can be used to substitute expensive rotary screen production allowing lower cost, faster flexo printing.

Colour Management

Easy, accurate colour matching that can reduce set up time and improve colour accuracy.

Process Improvement

Systems that can help printers to produce better, faster and cheaper output than was previously possible.

Technical Support

Products and services are supported by an expert team who can demonstrate the key benefits and help printers to maximise press throughput.

Consistent Quality

All Sericol ink products are manufactured in Fujifilm Speciality Ink System's award-winning UK-based ink factory, and are produced in a strict, high quality, industry-leading process controlled operation. This ensures Fujifilm delivers consistent, high quality inks each and every time.

This product directory provides an overview of Fujifilm's narrow web products and highlights some key technical information that will help customers to optimise their properties.

Micro-V dispersion technology

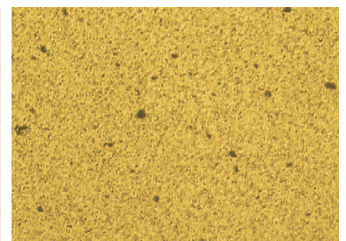
Sericol flexo inks have been developed using innovative Micro-V dispersion technology that allows ultra-high pigment loading while maintaining good viscosity and flow. This technology is combined with quality driven, process controlled manufacturing to ensure that inks are produced to the same high quality every time.

Key benefits that this technology offers include:

- ▶ High colour strength, so inks are economical in use
- ▶ Fast curing, allowing high throughput
- ▶ Optimised viscosity and flow, improving the appearance of the finished print
- ▶ Consistent, reliable performance



Sericol Flexo JD ink



Conventional flexo ink



Sericol Flexo JD

UV cured ink range

Sericol Flexo JD is a Benzaphenone and ITX-free high gloss UV flexo ink system that incorporates a wide range of colours, process inks, metallic shades and specialist products. Flexo JD uses Micro-V dispersion technology, enabling a highly pigmented product whilst maintaining consistent viscosity and flow.



Key benefits that Flexo JD inks offer include:

- ▶ Low viscosity press ready colours
- ▶ High colour density
- ▶ Adhesion to a wide range of synthetic substrates, including top coated PE & PP, PVC, PET, some thermal papers, metallised foils and most commonly available papers
- ▶ Suitable for a wide range of applications including self-adhesive labels and unsupported films for sachets and pouches
- ▶ Overprintable with thermal transfer ribbons and cold foil adhesives
- ▶ Good hot foiling properties
- ▶ Dedicated Pantone®* formulation matching system
- ▶ A range of Flexo sleeve whites for shrink sleeve applications
- ▶ Faster curing black JD005 for higher volume aniloxes. Suitable for process printing and solids



Sericol Flexo JJ

LED UV cured flexo inks

Sericol Flexo JJ is an ultra-fast cured, high gloss LED UV flexo ink system incorporating a range of colours, process inks, metallic shades and specialist products.

Flexo JJ uses Micro-V dispersion technology enabling a highly pigmented product whilst maintaining consistent viscosity and flow.

The exceptionally fast cure speed of Flexo JJ enables a wide range of anilox volumes to be used, which allows for deeper more saturated colours in the final print.

Flexo JJ is designed for use with both the Illumina and Activ LED UV curing systems, but is also compatible with most other available LED UV curing systems



Key benefits that Flexo JJ inks offer include:

- ▶ Low viscosity press ready colours
- ▶ High colour density
- ▶ Similar colour characteristics to the Sericol Flexo JD UV curing ink range
- ▶ Adhesion to a wide range of synthetic substrates Including top coated PE & PP, PVC, PET, some thermal papers, metallised foils and most commonly available papers
- ▶ Suitable for a wide range of applications including self-adhesive labels and unsupported films for sachets and pouches
- ▶ Over printable with thermal transfer ribbons and cold foil adhesives
- ▶ Good hot foiling properties
- ▶ Dedicated Pantone®* formulation matching system
- ▶ Flexo sleeve white for shrink sleeve application

Sericol Flexo JF

Indirect food packaging compliant
UV cured flexo inks

Sericol Flexo JF is a high-gloss UV cured flexo ink system incorporating a range of colours, process inks, and other specialist products that are all indirect food packaging compliant in accordance to EuPIA guidelines.

Sericol Flexo JF inks are formulated to comply with Swiss Ordinance (Ordinance of the EDI on commodities 817.023.21) and Nestle List (Nestle guidance note packaging inks - 2016). They are manufactured at the award winning Fujifilm Speciality Ink Systems factory under strict high quality process controls with Good Manufacturing Practices (GMP) to ensure compliance of the final product.

Flexo JF uses Micro-V dispersion technology enabling a highly pigmented product whilst maintaining consistent viscosity and flow.



Key benefits that Flexo JF inks offer include:

- ▶ Low viscosity press ready colours
- ▶ High colour density
- ▶ Similar colour characteristics to the Sericol Flexo JD UV and JF LED UV curing ink ranges
- ▶ Adhesion to a wide range of synthetic substrates Including top coated PE & PP, PVC, PET, some thermal papers, metallised foils and most commonly available papers
- ▶ Suitable for a wide range of applications including self-adhesive labels and unsupported films for sachets and pouches
- ▶ Over printable with thermal transfer ribbons and cold foil adhesives
- ▶ Good hot foiling properties
- ▶ Dedicated Pantone®* formulation matching system
- ▶ Flexo sleeve white for shrink sleeve application



Sericol Flexo Supernova Whites

Supernova White UV cured flexo ink

Flexo Supernova Whites are ultra-opaque flexo whites that can be used as an alternative to a rotary screen white. Flexo Supernova Whites were designed for use with HOW anilox technology from Sandon Global. The best results are achieved using Flexo Supernova Whites in conjunction with HOW anilox technology. This combination gives good opacity together with high quality text. However, other high volume technology anilox are available.

In addition to the process improvements there are significant cost advantages that can be realised by switching from rotary screen to flexo printing. A typical example is shown below:



Key benefits that Flexo Supernova Whites offer include:

- ▶ Outstanding opacity comparable to rotary screen
- ▶ Prints dense solids and text
- ▶ Excellent overprinting and trapping properties with most inks
- ▶ Performance is optimised for high volume anilox rolls
- ▶ Exceptional adhesion
- ▶ Fast cure response
- ▶ Can be used in conjunction with JD colours for High Opacity Colours

Cost in use comparison: JD752 Supernova White vs Rotary Screen Opaque White

Flexo	
Anilox Cell Volume	Sandon Global HOW 3
Ink cost	
Area of job	2,000 m ²
Area of ink coverage	50 %
kgs used per square metre	0.012 kg/m ²
Total ink used kgs	12 kg
Ink cost per kg	£14
Total ink cost for production	£168
Pre-press costs	
Labour cost to make a new plate	£20
New plate cost	£20
Total production cost	£208

Screen	
Open area	13%
Ink cost	
Area of job	2,000 m ²
Area of ink coverage	50 %
kgs used per square metre	0.015 kg/m ²
Total ink used kgs	15 kg
Ink cost per kg	£14
Total ink cost for production	£210
Pre-press costs	
Labour cost to make a new screen	£100
Materials cost for new screen	£150
Total production cost	£460

Cost comparison	
Total Saving / Job	£252
Number of jobs per week	10
Saving per week	£2,520
Working weeks in one year	50
Annual saving	£126,000

The cost savings illustrated in this comparison are based on the differences in ink coverage and pre-press costs. Additional savings include elimination of trapping additives. UV Flexo inks typically require trapping additives when overprinting rotary screen inks. No additives are needed when printing Flexo JD752 Supernova White.

Sericol Flexo Sleeve Whites

UV cured flexo ink

Flexo Sleeve Whites are formulated to meet the high demands of sleeve conversion and application lines. These products have been developed in conjunction with sleeve conversion partners to give the optimum slip and durability required in modern application lines.

Sericol Flexo Sleeve Whites use Micro-V dispersion technology enabling a highly pigmented product whilst maintaining consistent viscosity and flow.

Because JDSW Sleeve Whites contain slip additives, they are only recommended for sub-surface printing for sleeves and wrap around labels, and are not readily over-printable.

Slip will be related to ink film-weight and cure conditions, but typically coefficients of static slip of 0.15 are attainable, depending on the version printed.

Slip values are measured using an incline plane tester or mechanical friction tester, with prints in contact face to face.

Relative cure can be tested by solvent resistance using MEK. It is important to ensure that inks are fully cured to eliminate problems with application and shrink, during sleeve conversion.

For further information regarding the product suitable for your application, please contact your local Fujifilm partner.



Key benefits that Flexo Sleeve Whites offer include:

- ▶ Excellent opacity
- ▶ High slip
- ▶ Excellent scratch and scuff resistance
- ▶ Fast cure response
- ▶ Excellent shrink properties
- ▶ Excellent adhesion properties

Sericol specials, varnishes, cleaners and ancillary products

Fujifilm offer a wide range of Sericol speciality inks, varnishes and ancillary products.

The range includes the following:

- ▶ A comprehensive range of pre-press products
- ▶ Rotary Screen Whites and Varnishes including tactile
- ▶ Flat Screen Inks, Whites and Varnishes including tactile
- ▶ Flexo Coatings including Varnishes, Adhesives and Primers
- ▶ A wide range of cleaning and other ancillary products for the flexo process
- ▶ Other speciality products for example Rub Removable are also available.





Fujifilm colour management solutions



Getting the right colour first time, every time is important for any business. Fujifilm has developed a wide range of colour management systems to help label printers to do this.

Pre-press proofing and ink delivery systems can be used to prematch and weigh colours, saving considerable time and wasted material on press. Systems include:

- ▶ Fujifilm hand-matched and predicted Pantone® colour formulae
- ▶ Spectrophotometer predicted formulae for non-Pantone® colours

Colour management systems are tailor made for each customer, depending on many factors including batch size, number of ink shades used and number of batches. Fujifilm supplies the optimum system for your individual requirements.

Please contact your local Fujifilm partner to find out more information on colour management systems that can help make your business more efficient.



Please contact your local Fujifilm partner or visit www.fujifilm.eu/print



For further information:

- Web** www.fujifilm.eu/print
- YouTube** Fujifilm Print
- Twitter** @FujifilmPrint

