

## Product Information

# SERICOL

## Flexo JJ

### UV LED Curing Flexo Printing Inks

**Flexo JJ is a high gloss UV LED flexo ink system that incorporates a wide range of colours, process inks, metallic shades and specialist products.**

#### Finish

Gloss

#### Cure

Formulated to cure under typical industry LED systems

#### Wash-up

Plates, rollers ancillaries: DFGC1 General Cleaner  
Deep cleaning of anilox: DFDCL Deep Clean

#### Substrates

Most grades of supported and unsupported synthetic label stock including PE, PP, PVC, TC-PE, TC-PP, PET, coated papers, some coated thermal papers and metallised foils.

#### Plates and Tape

Most plates that are compatible with UV inks.

#### Doctor Blades

Reverse angle and chambered doctor blades

#### Substrate Treatment Level

38-44 dynes/cm. Corona treatment may also improve adhesion and ink printability

#### Anilox Rolls

Ink Type	Line Count	Anilox Volume
Four colour process	900-1200 lpi	2.3-4.0 cm <sup>3</sup> /m <sup>2</sup>
Pantone Colours	350-800 lpi	5.5-8.0 cm <sup>3</sup> /m <sup>2</sup>
White	150-250 lpi	12-20 cm <sup>3</sup> /m <sup>2</sup>
Supernova White	HOW3	HOW3
Metallics	250-325 lpi	7-15 cm <sup>3</sup> /m <sup>2</sup>
Varnish	150-350 lpi	6-10 cm <sup>3</sup> /m <sup>2</sup>
Sleeve White	300-400 lpi	6.5-10 cm <sup>3</sup> /m <sup>2</sup>



Key benefits of Flexo JJ 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 some sachets and pouches, and shrink sleeves
- Over-printable with most thermal transfer ribbons and cold foil adhesives
- Good hot foiling properties
- PANTONE® Matching Formulae available
- Flexo sleeve white for shrink sleeve applications

### **Print Characteristics**

Flexo JJ inks produce outstanding printing results over a wide range of applications, conditions and substrates. Flexo JJ inks have reliable intercoat adhesion and foil blocking properties with excellent flow and gloss characteristics over a wide range of press speeds.

### **Doctor Blades**

The low viscosity of the ink system makes it suitable for reverse angle and chambered doctor blade systems.

### **Plates and Tape**

Flexo JJ is compatible with the majority of plate materials recommended for UV ink systems. The choice of plate and cushion mount can have an impact on the print quality.

### **Curing**

Adhesion is normally obtained immediately upon curing; however maximum adhesion, chemical and mar resistance will be obtained up to 24 hours after initial curing.

### **Flexo JJ752 Supernova White**

Flexo JJ752 Supernova White is an ultra opaque flexo white that can be used as an alternative to rotary screen white in combination printing on clear filmic substrates. To obtain maximum opacity the use of specialist high volume anilox rolls is recommended. Contact FSIS for further details.

Printing fine text with JJ752 is not generally recommended due to the high volume anilox rolls generally used. Lower anilox volumes will improve definition but at the expense of opacity. Contact FSIS for further information.

### **Pre-Production Testing**

Flexo JJ is formulated to adhere to most grades of top coated or corona treated filmic materials with surface tension levels of 38 dyne/cm or higher. However, it is strongly recommended that all substrates and over-printing processes are tested before use on a commercial run.

- Substrates can vary between manufacturers, and between batches from the same manufacturer.
- It is recommended to thoroughly test compatibility when overprinting with thermal ribbons, toners, inkjet, hot and cold foiling.

**The end-user must determine suitability of this product for the intended use prior to production.**

### **Colour Range and Resistance Properties**

The Flexo JJ standard base colours are formulated for optimum colour consistency, colour strength and press performance. For product and light resistance properties see the Flexo JJ Technical Information sheet. Additional resistant base colours are used for higher product and light resistance applications.

Printers should ensure that light fastness/resistance properties are appropriate for their application before use in production.

## Product Range

### 4 Colour Process

JJ004 Flexo UV LED Process Black  
JJ052 Flexo UV LED Process Yellow  
JJ135 Flexo UV LED Process Magenta  
JJ215 Flexo UV LED Process Cyan

### Standard Base Colours

JJ001 Flexo UV LED Tinting Black  
JJ025 Flexo UV LED White  
JJ045 Flexo UV LED Yellow  
JJ103\* Flexo UV LED Orange  
JJ097 Flexo UV LED Red 032  
JJ163 Flexo UV LED Rubine Red  
JJ199 Flexo UV LED Warm Red  
JJ125 Flexo UV LED Rhodamine Red  
JJ127 Flexo UV LED Violet  
JJ254 Flexo UV LED Blue 072  
JJ240 Flexo UV LED Pro. Blue  
JJ260\* Flexo UV LED Reflex Blue  
JJ320\* Flexo UV LED Green  
JJ381 Flexo UV LED Mixing Base

### Resistant Colours

JJ064 Flexo UV LED Resistant Yellow  
JJ164 Flexo UV LED Resistant Rubine Red  
JJ165 Flexo UV LED Resistant Rhodamine Red

### Whites

JJ752 Flexo UV LED Supernova White  
JJSW2 Flexo UV LED High Performance Sleeve White

### Metallics

JJ871\*\* Flexo UV LED Rich Gold 871  
JJ872\*\* Flexo UV LED Metallic Gold 872  
JJ873\*\* Flexo UV LED Metallic Gold 873  
JJ874\*\* Flexo UV LED Metallic Gold 874  
JJ875\*\* Flexo UV LED Metallic Gold 875  
JJ876\*\* Flexo UV LED Metallic Gold 876  
JJ877\*\* Flexo UV LED Silver 877

Available in 5kg units (with the exception of JJ877 which is packed in 4kg units)

N.B: The metallics are not a stocked product. They have a Minimum Order Quantity (MOQ) of 4 x 5kg & 4 x 4kg for JJ877. Please add a further 4 weeks from the date of order to your normal lead time for these products.

### Varnishes & Specialist Products

JJ391 Flexo UV LED Gloss Varnish  
JJA01 Flexo UV LED Matt Overprintable Varnish  
JJA07 Flexo UV LED Primer

Available in 5kg units

JJA10 UV LED Pressure Sensitive Adhesive

JJA15 UV LED PP Laminating Adhesive

N.B: JJA10 and JJA15 are not a stocked product and have a Minimum Order Quantity (MOQ), please contact FSIS for the latest pack size and order quantity. Please add a further 4 weeks from the date of order to your normal lead time for these products.

### Additives

ZE818 Flexo Thinner - General use - Useage 1-10% - Available in 5 ltr units.

ZE12 Trapping Additive - Improves levelling and improves trapping over standard silicone containing rotary screen white - Useage 1-2% - Available in 1 ltr units

ZE824 Cure Additive - Improves cure if required - Useage 1-3% - Available in 1 kg units

### Resistant Colours

Resistant colours are formulated to match as closely as possible the relevant standard shade. However the resistant pigments used may appear weaker and dirtier than the corresponding standard shade.

### PANTONE® Matching System

The Flexo JJ range includes Pantone® base colours plus Black, White and Mixing Base to produce accurate simulations of the PANTONE® colours in the coated ('C' suffixed) section. The Fujifilm package includes:

1. PANTONE® Color Formula Guide - The original PANTONE® book.
2. Fujifilm Formula Guide - Formulations given in percentages by weight.

### Storage

Containers should be tightly closed immediately after use. Uncontaminated press returns should be stored under the same conditions as the unopened ink containers. Flexo JJ inks should not be stored in direct sunlight, or near heat sources and should be kept away from peroxides. Refer to the Safety Data Sheet for materials and conditions to be avoided. For optimum shelf-life, all products should be stored at moderate temperatures between 5°C and 30°C. Storage outside of these temperatures may lead to deterioration in the performance of the product.

When stored at optimum storage conditions, Flexo JJ inks are expected to have a shelf life of approximately 12 months from the date of manufacture except for those highlighted. In-house colour matches should be used within 3 months of the original date of blending.

\*These colours have a shelf life of approximately 9 months

\*\*These colours have a shelf life of approximately 6 months

### Safety and Handling

Flexo JJ Inks:

- Have a flashpoint greater than 60°C and is therefore not classified as "dangerous substance" under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).

Comprehensive information on the safety and handling of Flexo JJ inks and associated products is given in the appropriate Safety Data Sheets.

### Environmental Information

Flexo JJ Inks:

- Do not contain ozone-depleting chemicals as described in the Montreal Convention.
- Are formulated free from aromatic hydrocarbons.
- Are free from any volatile solvent and can therefore be considered to have less impact on the environment when compared to solvent-based products.

### Fujifilm Speciality Ink Systems Limited:

- Has certification to the International Environmental Standard, ISO 14001.
- Has certification to the Quality Management Standard, ISO 9001.
- Has certification to the Occupational Health and Safety Standard, ISO 45001.
- Is committed to minimising the risk to users of our products, and also to minimising the impact of our activities on the environment, from formulation through to production and supply.

- Research and development team, work to an in house Health, Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reducing waste through better use of raw materials, energy, water, re-use and recycling.

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