

# UVivid

UV Narrow Web Printing Inks

Flexo FL

## UVivid Flexo FL UV Curing Flexographic Ink

### Features

- Integral component of UVivid Rotary Screen/Flexo system for combination printing.
- High colour density.
- Optimised rheology for all common press types.
- Minimal dot gain through leading edge ink technology.
- High gloss finish with excellent hold out.
- Fast cure for high production output.

### Substrate Application

Coated paper and board.

Pressure sensitive vinyls.

Top coated and corona treated pressure sensitive Polyesters, Polyethylenes and OPP films.

**SERICOL**  
More than ink...Solutions.

# UVivid

UV Narrow Web Printing Inks

Flexo FL

## Print Characteristics

UVivid Flexo FL UV inks offer superb dot reproduction, maintain excellent print definition and sharp reverse outs without the gain typical of water or solvent-based flexo inks. Flexo FL inks have good flow, levelling properties and a high gloss level. Intercoat adhesion, trapping and foil blocking are good.

## Printing Recommendations

UVivid Flexo FL is developed for use with the finest anilox roll cell counts and volumes commercially available. Use of such anilox rolls will maximise print quality, and improve ink mileage. Line colours are designed to be run on anilox rolls up to cell counts as high as 600 lines/inch with volumes of 4 - 5.5cm<sup>3</sup>/m<sup>2</sup>. Process colours can be printed on cell counts up to 1000 lines/inch with volumes of 2 - 2.5cm<sup>3</sup>/m<sup>2</sup>. Increased colour strength can be achieved through the use of lower cell counts and higher volumes. Colour strength can be reduced by using higher cell count and lower volume anilox rolls.

UVivid Flexo FL is compatible with most plates designed to function with UV inks. Tests have shown that Flexo FL induces minimal plate swell and softening over a 24 hour period.

## Extender

UVivid Flexo FL can be extended with FL381 mixing base to reduce colour strength if a lower volume anilox alternative is not available.

## Opaque White

UVivid Flexo FL025 is a high coverage ground coat White formulated to be fully trappable with the line colour range.

## Curing

Excellent cure and adhesion are attained immediately upon curing; however maximum adhesion, chemical and mar resistance will be obtained 24 hours after initial curing.

## Wash Up

Anilox rolls can be washed up with Universal Screen Wash ZT639. Roller and plates should be washed up with a roller cleaner wash or an isopropyl alcohol solution.

## Pre-Production Test

UVivid Flexo FL is formulated to adhere to most major brand, top coated or corona treated, plastic materials with surface tension levels of 38 dyne/cm or higher. However, it is strongly recommended that all substrates and blocking foils be tested before use on a commercial run. Supposedly similar substrates can vary between manufactures, and between batches from the same manufacturer. Certain plastics may be impregnated with lubricants which, like plasticiser migration, may impair adhesion and block resistance.

It is also recommended to thoroughly test for compatibility when overprinted, as ribbons, toners and pigments used by overprint technologies can vary from batch to batch.

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

## Chemical and Abrasion Resistance

UVivid Flexo FL has excellent resistance to chemicals, and abrasion. For optimum resistance a durable UV varnish overprint can also be used.

## Colour Management

Special colours can be supplied against prints or wet ink samples. A sample of the substrate to be printed, with the cell count and ink volume of the anilox used, should be attached to orders.

UVivid Flexo FL can be used to produce accurate simulations of the PANTONE<sup>®\*</sup> colours in the coated ('C' suffixed) section of the PANTONE<sup>®\*</sup> colour formula guide.

\*PANTONE<sup>®</sup> is the property of Pantone, Inc.

**SERICOL**  
More than ink...Solutions.

# UVivid

UV Narrow Web Printing Inks

Flexo FL

## Sericol Formulation Guide

A booklet containing all 1097 hand matched PANTONE®\* colour formula guide recipes given in percentages by weight.

## UVivid Flexo FL Colour Range

The UVivid Flexo FL inks are available in 12 base colours plus Black, White and Mixing Base. There is also a range of intense process inks.

4 colour process set	Product Code
Process Black	FL004
Process Magenta	FL135
Process Yellow	FL052
Process Cyan	FL215

Line Colour Range	Product Code
Yellow	FL045
Orange	FL103
Warm Red	FL199
Red 032	FL097
Rubine	FL163
Rhodamine	FL125
Purple	FL237
Violet	FL132
Blue 072	FL254
Reflex Blue	FL236
Process Blue	FL240
Green	FL320
Black	FL001
Opaque White	FL025
Mixing Base	FL381

Available in 5 kg containers

## Additives

Flexo Thinner      ZEA05 - general use.  
Special Thinner    ZEA06 - increases surface hardness.

## Storage

Containers should be tightly closed immediately after use. At the end of long print runs, surplus ink from the ink tray should be disposed of. UVivid Flexo FL inks are outside the Petroleum (Flammable Liquids) Order 1971 and Liquefied Gasses Regulations 1972.

UVivid Flexo FL should not be stored in direct sunlight or near warm pipes and should be kept

away from Peroxides. In the interest of maximum shelf-life storage temperatures should be between 10°C and 25°C.

Inks and additives should not be stored in direct sunlight or extreme temperatures. Refer to Material Safety Data Sheet (MSDS) for materials and conditions to be avoided.

When stored in a cool environment the inks are expected to have a shelf life of approximately 12 months from the date of manufacture.

## Safety and Handling

### UVivid Flexo FL:

- Is formulated to be free from any (toxic) carcinogenic, mutagenic or reprotoxic-chemicals.
- Is formulated free from lead and other heavy metals and therefore should comply to the EN71-3: 1988 Toy Safety Standard.
- All UV curing inks and varnishes contain acrylates. Acrylates, like any organic solvent, are skin and/or eye irritants. It is essential that the measures given in Section 8 of the Material Safety Data Sheet for this product are always followed.

Comprehensive information on the safety and handling of UVivid Flexo FL is given in the appropriate Sericol Safety Data Sheet, available on request.

## Environmental Information

### UVivid Flexo FL:

- Does not contain ozone depleting chemicals as described in the Montreal Convention.
- Is formulated free from aromatic hydrocarbons which are known to have an adverse effect on the environment.
- Is free of any volatile solvent and is therefore beneficial to the environment when compared to solvent-based products.

**SERICOL**  
More than ink...Solutions.

# UVivid

UV Narrow Web Printing Inks

Flexo FL

*The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of our Company, whether verbally or in writing, are based on our present knowledge and believed to be accurate. However, no guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products and because manufacturing methods, printing stocks and other materials vary. For the same reason our products are sold without warranty and on condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvement might make some of the information contained in this Product Information sheet out of date and users are requested to ensure that they follow current recommendations.*

**SERICOL**  
More than ink...Solutions.

Sericol Limited Pysons Road Broadstairs Kent CT10 2LE England  
Telephone: (01843) 866668 Fax: (01843) 872184

UK Sales - Tel: (01992) 782619 Fax: (01992) 782602  
Email: UKsales@Sericol.com

Customer Service Centres - Tel: 0845 084 89 89  
Birmingham, Bristol, Gateshead, Glasgow, Leeds,  
London, Warrington.

Technical Helpline - Tel: 0845 770 80 70

**Export Sales**

Pysons Road Broadstairs Kent CT10 2LE England  
Tel: +44 (0)1843 866668 Fax: +44 (0)1843 872122  
Email: Exportsales@Sericol.com

[www.sericol.com](http://www.sericol.com)

