

Product Information

**SERICOL**

Uvipak NG UV Curing Screen Ink

Uvipak NG is a UV curing ink system for printing on to pre-treated polyethylene and polypropylene, bottles and containers.

Product Resistance

Uvipak NG inks have generally better chemical and solvent resistance properties than conventional inks and will resist attack by most products likely to be packed in a printed container. Resistance of prints immediately after cure is excellent, but for best results it is advisable to allow six hours after curing to achieve optimum resistance. Uvipak inks are not recommended for use in applications where outdoor exposure is a possibility.

The following table shows the general resistance properties of Uvipak inks printed through a No. 180 monofilament screen onto pre-treated polyethylene, fully cured with one medium pressure Mercury Vapour Lamp of 80 w/cm, operating in a normal atmosphere. The resistance properties were assessed after 24 hours' immersion in each product.

	Excellent	Good
Aftershave Lotions	•	
Alcohol	•	
Alkalis (up to 10%)		•
Antifreeze	•	
Battery Acid		•
Bleach		•
Brake Fluid		•
Cosmetics	•	
Detergents	•	
Household Cleaners	•	
Motor Oil	•	
Petrol		•
Skin Care Products	•	
Solvents		•

The Seritone Matching System

The Seritone Matching System enables readily matched special colours. The system comprises base colours plus Black, White and Extender Base.

PANTONE®* Matching System

FUJIFILM Sericol provide formulae for Uvipak NG to produce accurate simulations of PANTONE® colours in the coated ('C' suffixed) section.

The FUJIFILM Sericol package includes:

- PANTONE® Colour Formula Guide**
- FUJIFILM Formula Guide**
Formulations given in percentages by weight.
- Colour manager Software**
For use with IBM compatible computers. This package enables use of the PANTONE® formulations plus:
 - Storage facility for user's own formulations
 - Automatic batch sizing and costing
 - Ink coverage estimator
 - Stock control system to calculate the amount of stock and a reminder when stocks fall below a given (programmable) level.
- PANTONE® Formula Scales**
Pre-programmed with PANTONE® shades to ensure maximum accuracy, speed and cost savings.

Main Characteristics

Finish

High Gloss

UV Curing

Hourly output of approximately 4000 containers of 60mm diameter may be expected in units with suitable medium pressure mercury vapour or electrodeless lamps.

Cure speed is dependent on film thickness, colour and opacity coupled with lamp condition and type.

Thinning & Wash-up

ZE637 can be used for minor adjustments or, warming ink to a maximum of 38-40°C will reduce viscosity.

Over-thinning will reduce colour strength.

Wash up with Xtend Screen Wash and Cleaner (See Xtend Screen Cleaners Product Information Sheet)

Do not use ZE637.

Mesh

Nos. 150-180 monofilament.

Stencil Type

All solvent resistant stencils are suitable.

Recommend:

18 micron capillary film

FUJIFILM Sericol: Dirasol 916, Dirasol Super Coat

Coverage & Mesh No.

80-90 m²/kg. No. 180

Applications

Pre-treated polyethylene and polypropylene bottles and containers.

Colour Range

14 including Seritone Matching System.

Properties

Fast cure, unlimited screen stability.

Excellent physical and chemical resistance. Substantially higher coverage than solvent-based inks.

Low odour and negligible atmospheric pollution.

Curing & Post Curing

Overprinting should be conducted in line on multi-colour machines as any delay in overprinting may result in poor intercoat adhesion. The chemical reaction initiated by UV radiation will continue for some time after the dried prints emerge from the dryer. It is therefore important that the adhesion of the first colour down, and all subsequent overprint colours, is assessed at regular intervals.

IMPORTANT: Stir well before every use. Always test application fully before beginning production run as supposedly similar plastics can vary between different manufacturers and even between different batches. Certain plastics may be impregnated with lubricants or anti-static additives which, like migrating plasticisers, may impair adhesion even a considerable period after printing.

* PANTONE® is the property of Pantone, Inc.

Colour Range

Uvipak NG inks are available in 14 intermixable colours including the Seritone Matching System.

Standard Colours

Uvipak NG Screen Inks:

NG001		Black
NG010		Tinting Black
NG021		White
NG025		Opaque White
NG030		Tinting White
NG064	(s)	Seritone Yellow (GS)
NG043	(s)	Mid Chrome/Seritone Yellow (RS)
NG114	(s)	Seritone Orange
NG121	(s)	Vermilion/Seritone Red (YS)
NG164	(s)	Seritone Red (BS)
NG165	(s)	Seritone Magenta
NG127	(s)	Deep Violet/Seritone Violet
NG230	(s)	Seritone Blue
NG325	(s)	Seritone Green
NG381		Extender Base

(s) = Seritone Base Colours

(GS) = Green Shade (YS) = Yellow Shade

(RS) = Red Shade (BS) = Blue Shade

Available in 5 kg containers.

Reducer

ZE637 Thinner

Available in 5 ltr containers.

Special Matches

Colours can be supplied against prints, wet ink samples or to PANTONE® references, British Standard, 'HKS', 'Munsell' or 'Seritone' numbers. A sample of the substrate to be printed, with the number and type of mesh to be used, should be attached to orders.

The product resistance required of special matches may be very important and it is necessary that full details are supplied of the process to be followed and the product to be packed into the container.

Minimum quantity 5 kg.

Storage

Containers should be tightly closed immediately after use. At the end of long printing runs surplus ink from the screen should be disposed of. Uvipak NG inks are outside the Petroleum (Flammable Liquids) Order 1971 and Liquefied Gases Regulations 1972.

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

Fujifilm Speciality Ink Systems limited:

- Has certification to the International Environmental Standard, ISO 14001
- 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 & 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.

Safety and Handling

Uvipak NG:

- Has a flashpoint greater than 55°C and is therefore not classified as a "dangerous substance" under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).

Comprehensive information on the safety and handling of Uvipak NG inks and solvents is given in the appropriate Fujifilm Safety Data Sheet, available on request.

Environmental Information

Uvipak NG:

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

The information and recommendations contained in this Product Information sheet, as well as technical advice otherwise given by representatives of Fujifilm Speciality Ink Systems Limited and its associated companies, 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.

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