

Speciality

Screen UV

Inks

Containers & Bottles

UVIPAK NGI

Pre-treated polyethylene and polypropylene bottles and containers.

FEATURES

- High Gloss
- Fast cure
- Unlimited screen stability
- Excellent physical and chemical resistance
- Substantially higher coverage than solvent-based inks
- Low odour and negligible atmospheric pollution

Substrate:

Pre-treated polyethylene and polypropylene bottles and containers.

TEST INKS ON SUBSTRATES
BEFORE PRODUCTION RUN.

SERICOL
More than ink... Solutions.
FUJIFILM

Applications:

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

Finish:

High Gloss

Colour Range:

20 including Seritone Matching System.

Colour Matches:

Colour matches can be supplied against prints and/or Wet ink samples.

Seritone Colour 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 NGI to produce accurate simulations of PANTONE® colours in the coated ('C' suffixed) section. The FUJIFILM Sericol package includes:

- 1) PANTONE® Colour Formula Guide
- 2) FUJIFILM Sericol Formula Guide Formulations given in percentages by weight.
- 3) 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.

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.

Standard Colours:

NGI001	Black
NGI010	Tinting Black
NGI021	White
NGI023	Extra Opaque White
NGI025	Opaque White
NGI030	Tinting White
NGI064	Seritone Yellow (GS) (S)
NGI065	Seritone Matt Yellow
NGI043	Mid Chrome/Seritone Yellow(RS)(S)
NGI114	Seritone Orange (S)
NGI115	Seritone Matt Orange
NGI121	Vermilion/Seritone Red (YS)(S)
NGI164	Seritone Red (BS) (S)
NGI165	Seritone Magenta (S)
NGI126	Seritone Matt Violet
NGI127	Deep Violet/Seritone Violet (S)
NGI230	Seritone Blue (S)
NGI231	Seritone Matt Blue

(S) = Seritone Base Colours
 (GS) = Green Shade (YS) = Yellow Shade
 (RS) = Red Shade (BS) = Blue Shade
 Available in 1 & 5 kg containers.

Product Resistance:

Uvipak NGI 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		•

Pre-production Test:

Always test for Adhesion, outdoor durability and other properties before each production run because there can often be significant differences between substrates from different manufacturers and even between different batches. Other

Thinning & Reducer:

ZEI818 Thinner / Reducer.

ZEI818 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.

Available in 5 ltr containers.

Mesh:

Print the Uvipak NGI inks 150.34/cm to 180.34/cm, monofilament polyester fabric, depending on the application. For fine details & half tone printing, use amber or yellow coloured fabric.

Coverage:

Uvipak NGI inks should give a coverage of 80-90 sq.m/Kg, when printed through a 180.34/cm mesh.

Stencils:

Recommend 18 micron capillary film. All solvent resistant stencils. Stencils can best prepared with Sericol's stencil making products:

Xtend Prep 101: for abrasion of screen mesh

Xtend Prep 102: for degreasing of screen mesh

Emulsions: Dirasol 132(single pack) or Dirasol 916(two pack).

Wash Up:

Wash up screens with SS 639 Universal Screen Wash. This will ensure long life of stencils made with Dirasol emulsions. Do not use ZEI818.

UV Curing & Post 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.

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.

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 NGI inks are outside the Petroleum (Flammable Liquids) Order 1971 and Liquified Gasses Regulations 1972. Uvipak NGI inks 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.

Safety and Handling:

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 NGI inks and solvents is given in the appropriate FUJIFILM Sericol Safety Data Sheet, available on request.

Environmental Information:

Does not contain ozone depleting chemicals as described in the Montreal Convention. Uvipak NGI formulated free from aromatic hydrocarbons. Uvipak NGI free of any volatile solvent and can therefore be considered to have

Fujifilm Sericol India Pvt Ltd

- Has certification to the international Environmental Standard, ISO 14001.
- Is committed to minimizing the risk to users of our products, and also to minimizing the impact of our activities on the environment, from formulation through to production and supply.
Regularly review and monitor our impacts and activities, setting objectives and targets as
- part of a continual improvement process.
Is committed to reduce waste through better use of raw materials, energy, water, re-use and recycling.

Important Note:

The information and recommendations contained in this product information sheet as well as technical advice otherwise given by representative of our company, whether verbally or in writing, are based on our present knowledge and experience. Such information/ technical advice is given in good faith, but without warranty, in view of the many factors that may affect processes or applications 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 the products will meet fully the particular requirements of the labels/ brands/ agencies of their clients and also that no proprietary rights and existing laws and legislation are violated.

Our advice does not relieve processors from the responsibility of carrying out their own tests and experiments, nor does it imply any legally binding assurance in respect of properties or suitability for a specific purpose or of the legal status of the listed products.

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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