

Graphic Screen Inks

Outdoor Signage
POP/Displays

UVIFLUTE PK

Outdoor UV Screen Inks for Polypropylene

Features

- UV Curing Inks
- 1 Year Outdoor Durability
- Satin Finish
- Fast Cure Speeds
- Excellent Adhesion on Corona treated Polypropylene
- Superior Flexibility & Intercoat Adhesion
- High Speed Printability
- Good Die Cutting
- V-Pyrol Free

Substrate

Corona treated Polypropylene, including fluted and sheet type

TEST INKS ON SUBSTRATES
BEFORE PRODUCTION RUN

SERICOL
More than ink... Solutions.
FUJIFILM

Thinning

UVIFLUTE PK inks are supplied press ready and thinning is normally not required. If necessary can be thinned with PK-TH Thinner, upto 5% maximum

Mesh

Print UVIFLUTE PK inks through 140.34/cm to 165.34/cm, monofilament polyester fabric, depending on the application.

For fine details & half tone printing, use amber or yellow coloured fabric.

Stencils

Stencils can best be prepared with Sericol's stencil making products:

■ **Xtend Prep 101:** for abrasion of screen

■ **Xtend Prep 102:** for degreasing of screen

Emulsions: Dirasol 132 single pack or Dirasol 915 two-pack.

Curing

Curing rate of inks, printed through 150.34 mesh & cured through dryer with two 80 watts/cm lamps, is 15-25 metres/minute. Actual curing rates depend on number of factors including ink thickness, opacity, the number and type of lamps used (including lamp emission spectrum, power & efficiency) and the substrate being printed. Care should be taken to ensure that each colour is cured correctly to achieve optimum adhesion to substrate and subsequent overprint adhesion. If undercure is experienced with any colour it can be addressed by reducing the ink deposit (by proper selection of mesh & squeegee) and/or reducing the belt speed & by increasing the amount of UV energy for curing.

Post Curing

The chemical reaction initiated by a UV dryer will continue for some time after the prints have emerged. This reaction can adversely affect intercoat adhesion and care should be taken that prints are not over-cured and that adhesion of subsequent colours, as well as the first colour, is assessed at regular intervals.

Coverage

UVIFLUTE PK trichromatic inks should give a coverage of 80-100 sq.m./kg, when printed through a 150.34PW mesh.

Wash Up

Wash up screens with SS639 Universal Screen Wash. This will ensure long life of stencils made with Dirasol emulsions.

Outdoor Use

UVIFLUTE PK inks have been successfully tested for weathering in a QUV Weatherometer, as per ASTM G53 test specification, using UVB-313 lamps. Uviflute PK trichromatic colours withstood 600 hours of testing before significant deterioration of the colour was evident.

Accelerated weathering tests cannot be precisely related to actual outdoor performance. But it is considered that 600 hours of weathering approximately equals to 1 year outdoor exposure in temperate climate.

Pre-Production Test

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

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

UVIFLUTE PK is specifically designed for use on polypropylene that is corona discharge treated during manufacture. The efficiency of this treatment decreases with age. It is recommended to always use fresh stock. Any contamination of the surface (e.g. finger marks) will impair adhesion and water resistance of the finished print. This can usually be overcome by wiping the surface with white spirit before printing.

Storage

- Keep inks in a cool place, away from direct sunlight or extreme temperatures
- Keep lids tightly closed when not in use.
- Any unused ink should not be returned to the can; must be stored separately.
- Shelf life is eighteen months from the date of manufacture, under storage at 10°C to 25 °C
- **Stir well before every use.**

Applications

The UVIFLUTE PK inks are recommended for outdoor signage and POP printing.

Colour Range

The UVIFLUTE PK Ink System includes the trichromatic (halftone) colours and an extender base that is used to reduce intensity of colours.

PK-004	Trichromatic Black
PK-052	Trichromatic Yellow
PK-135	Trichromatic Magenta
PK-215	Trichromatic Cyan
PK-396	Trichromatic Extender Base

Safety and Handling

The UVIFLUTE PK system:

- Is formulated to be free from any known or suspected toxic, carcinogenic, mutagenic or reprotoxic chemicals.
- Is formulated free from lead and other heavy metals.

Comprehensive information on the safety and handling of UVIFLUTE PK screen inks and solvents is given in the Material Safety Data Sheet, which is available on request.

Environmental Information

UVIFLUTE PK Ink System does not contain ozone-depleting chemicals as described in the Montreal Convention.

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 guarantee regarding their accuracy is given as we cannot cover or anticipate every possible application of our products manufacturing methods, printing stocks and other material vary. For the same reason, our products are sold without warranty and on the condition that users shall make their own tests to satisfy themselves that they will meet fully their particular requirements. Our policy of continuous product improvements might make some of the information contained in the Product Information sheet out of date and users are requested to ensure that they follow current recommendations.

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