

# Fascure FC

## Screen Inks

**SERICOL**

*Product*

*Information*

Fascure FC is a high gloss, fast curing system of UV inks designed for limited outdoor life, point of purchase applications on a variety of stocks, including many plastics

### Main Characteristics

Finish	Drying	Thinning & Wash-up	Mesh	Stencil Type	Coverage & Mesh No.	Applications	Colour Range
High Gloss	14 - 22 metres per minute through 140.34 PW mesh with one 80 watt/cm lamp for curing	<b>Thinning:</b> 3-5% Fascure Thinner FC-TH  <b>Wash up:</b> CPS Screen Wash A5 or Wash up No.1	140.34 - 165.34 PW monofilament	Any UV resistant stencil.  <b>Sericol Emulsion:</b> Dirasol 915 Dirasol 916  Indirect or 18/25 Micron Capillary Film	80 - 95 m <sup>2</sup> /L through 140.34 PW mesh	Coated papers & boards, self adhesive & rigid PVC, some polycarbonates, polyester, styrene.	21 lead-free fade-resistant shades including Seritone Pantone Matching System, Intense & Standard process colours.
<b>Properties</b> High gloss and fast cure speeds making it ideal for high speed printing. Wide adhesion range and good scratch resistance. Good opacity and NVP-free				<b>Co-use with other inks</b> It is recommended that Fascure FC inks not be mixed with any other UV or solvent-based inks			

**IMPORTANT: Stir well before every use. Always test application fully before beginning production run as there is often considerable variance between plastics from different manufacturers, and even between different batches from the same manufacturer.**

### Plastics

Certain plastics may be impregnated with lubricants which, similar to the migration of plasticisers, may impair adhesion and block resistance - even after considerable time post printing. This can usually be overcome by wiping the surface with white spirit before printing. Surface adhesive left from protective papers on PVC sheets should be thoroughly removed as per supplier's instructions. **Certain plastics can become brittle when printed, sometimes even to the point of shattering, often only after several weeks. It is therefore essential to check compatibility between ink and plastic to guard against this problem.**

### Outdoor Use

Accelerated Weathering:

Tests have been conducted on prints produced using Fascure FC colours which indicate that provided application recommendations are followed, a life of up to 12 months can be expected.

### Special Uses

With the addition of FC-AM adhesion modifier, Fascure FC inks demonstrate excellent adhesion to fluted polypropylene and polyolefins with dyne levels >40dynes/cm<sup>2</sup>. Add 5% of FC-AM to ink and mix thoroughly. Expected pot-life is between 6 and 8 hours. Adding more than 5% of FC-AM or hot conditions may greatly reduce pot-life of mixed ink.

### Curing Information

The curing schedule quoted is typical for modern UV dryers. Actual curing rates depend on a number of factors including film thickness, opacity, the number and type of lamps used (including lamp emission spectrum, power and efficiency) and the stock being printed. Although cure speeds of colours are similar, care should be taken to ensure that each colour is cured correctly to achieve optimum adhesion to substrate and overprint adhesion of subsequent colours.

### Post Curing

The chemical reaction initiated by the UV dryer will continue for some time after the dried prints emerge from it. This reaction can adversely affect intercoat adhesion and care should be taken that prints are not over-cured and that the adhesion of subsequent colours is checked at regular intervals. When Fascure FC is catalysed with FC-AM adhesion modifier, prints may take up to 24 hours to develop full adhesion.

### Special Matches

Matches can be supplied against prints, wet samples, or colour references such as PANTONE™. A sample of the substrate to be printed, the mesh to be used, as well as any other relevant information should be attached to the order.

Minimum quantity 1kg.

## Colour Range

The Fascure FC range consists of 9 special Seritone base colours designed for use in colour matching in conjunction with FC-SB Shading Black, FC-TW Tinting White and FC-MX Mixing Clear.

Tinting White and Shading Black should not be used where black or white printing is required. In these circumstances PC301 Opaque Black and PC311 Opaque White should be used as they have higher opacity and colour strength than the tinting shades.

For process printing, Fascure FC has 2 process sets. The standard process colours are for general 4-colour work, and the intense halftone colours are for back-lit work, or where stronger colours are required.

Two metallics powders are also available, Multi-purpose Silver Powder 850143 and Multi-purpose Gold Powder 850145.

FC-SB	Seritone Shading Black
FC-TW	Seritone Tinting White
FC064	Seritone Yellow GS
FC066	Seritone Yellow RS
FC114	Seritone Orange
FC121	Seritone Red YS
FC164	Seritone Red BS
FC165	Seritone Magenta
FC127	Seritone Violet
FC230	Seritone Blue
FC325	Seritone Green
FC-MX	Seritone Mixing Clear

### Fascure FC additional colours

FC301	Opaque Black
FC311	Opaque White

### Fascure FC Process Colours (SWOP)

FC004	Process Black (low structure)
FC052	Process Yellow (low structure)
FC135	Process Magenta (low structure)
FC215	Process Cyan (low structure)
FC13719	Process Yellow (high structure)
FC13720	Process Magenta (high structure)
FC13721	Process Cyan (high structure)
FCP-IHK	Intense Halftone Black
FCP-IHY	Intense Halftone Yellow
FCP-IHR	Intense Halftone Red
FCP-IHB	Intense Halftone Blue
FCP-HTX	Halftone Extender Base

### Fascure FC Additives

FC-TH	Fascure FC Thinner
FC-AM	Fascure FC Adhesion Modifier

## Storage

Tins should be kept in a cool place and tightly closed when not in use.

Excess ink from the screen should be disposed of in accordance with local regulatory authorities

## Pantone

The Fascure FC Seritone colour system includes a Pantone approved matching database. Pantone colours may be easily and quickly mixed using formulae from the Fascure FC Pantone Formula Book, the Sericol Colour Manager software and using Sericol Pantone Scales. Further details are available in the Sericol Pantone Mixing System Manual

## Metallic Shades

Metallic shades can be obtained by mixing FC-MX Mixing Clear with gold and silver powders. Recommended mixing ratios are as follows:

Gold: 850145 Multi-purpose Gold Powder  
Up to 20% by weight

Silver: 850143 Multi-purpose Silver Powder  
Up to 10% by weight

Fascure FC metallics may be tinted if required by 5 - 10% additions of Fascure FC Seritone base colours.

## Special Recommendations

To obtain the best results from the Fascure FC system, the following recommendations must be followed during colour matching and print production.

- The 11 colours which comprise the Fascure FC matching system and FC-MX Mixing Clear may be:
  - printed over and under each other
  - intermixed for matching purposes.
- No colour, other than those from the Fascure FC system can be added.
- The Fascure FC system must be printed onto suitably durable and compatible substrates.

## Safety and Handling

The Fascure FC 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 Fascure FC screen inks and thinners is given in the appropriate Sericol Material Safety Data Sheets (MSDS), which are available from the Sericol Product Catalogue CD or upon request.

The MSDS should be consulted before handling any inks or chemicals.

## Environmental Information

Fascure FC

- Is formulated to be free from heavy metals

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, 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 fully meet 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**  
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