

# Uvispeed UX

## UV Curing Screen Inks

SERICOL

# Product Information

Uvispeed UX is a high gloss, fast curing UV ink system designed for limited life display and point of purchase applications on paper, board and some plastics.

### Main Characteristics

Finish	Drying	Thinning & Wash-up	Mesh	Stencil Type	Coverage & Mesh No.	Applications	Colour Range
High Gloss	30-40 metres per minute through 150.34 PW mesh with 2x 80 watt/cm lamps for curing.	<b>Thinning:</b> Up to 5% UV Thinner ZE637, or Fast Thinner ZE824.  <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 - 100 m <sup>2</sup> /kg through 150.34 PW mesh	Paper, board (including corrugated), self adhesive & thin gauge rigid PVC, some grades of polycarbonate & styrene.	17 shades including the 10 base colours of the Seritone Matching System. Structured Process set.
<b>Properties</b> High gloss and fast cure - ideal for high speed printing. Wide adhesion range and good scratch resistance. Good opacity and NVP-free				<b>Co-use with other inks</b> Uvispeed UX inks may be interprinted and intermixed with Uviplast AU but not be mixed with any other UV or solvent-based inks			

<b>IMPORTANT:</b>	<b>Always test application fully before beginning production run, as there is often considerable variance between similar substrates from different manufacturers, and even between different batches from the same manufacturer. Testing should be such that it will verify suitability for intended end-use application.</b>
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### 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.**

### Safety and Handling

Comprehensive information on the safety and handling of Uvispeed UX 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

Uvispeed UX

- Is formulated to be free from heavy metals
- Formulated to be free of NVP

### Curing Information

The curing schedule quoted is typical for modern UV dryers. Actual curing rates depend on a number of factors including film thickness, shade, opacity, the number and type of lamps used (including lamp emission spectrum, power and efficiency) and the stock being printed. Care should be taken to ensure that each colour is cured correctly to achieve optimum adhesion to substrate and overprint adhesion of subsequent colours. A "sacrificial sheet" from the beginning of the run, can be checked for scratch / tape adhesion after each pass. Cure response may be decreased when printing onto coloured substrates, including preceding colours. Maximum throughput will be best achieved through well maintained UV curing units.

### 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.

### 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**

Uvispeed UX inks are available in 12 intermixable, non-bleeding standard line colours, including the 10 base colours of the Seritone Matching System. These colours can be used with the Pantone Matching Software for producing Pantone shades.

UX-001	(s)	Seritone Black
UX-064	(s)	Seritone Yellow GS
UX-066	(s)	Seritone Yellow RS
UX-114	(s)	Seritone Orange
UX-121	(s)	Seritone Red YS
UX-127	(s)	Seritone Violet
UX-164	(s)	Seritone Red BS
UX-165	(s)	Seritone Magenta
UX-230	(s)	Seritone Blue
UX-325	(s)	Seritone Green
UX-021		White
UX-381		Extender Base

(Available in 5 Kg containers)

**Process Colours**

UXB01	Process Yellow
UXB02	Process Magenta
UXB03	Process Cyan
UXB04	Black
UXB05	Process Base

(Available in 10 Kg. containers)

**Outdoor Use**

Uvispeed UX is designed for use on indoor advertising material. Where outdoor durability is required it is recommended that more resistant inks, such as Hiflex EY and Plactical PC be used. However, accelerated weathering tests have been carried out on Uvispeed UX. Based on these results, it is anticipated that UX, will withstand 9 - 12 months outdoor exposure before some colour deterioration may become evident, with the following exceptions: -

- UX-021 Uvispeed UX White
- UX-114 Uvispeed UX Seritone Orange
- UX-164 Uvispeed UX Seritone Red (BS)

These three shades should not be used outdoors; colour matches using these base shades will have a reduced outdoor life.

**Storage**

STIR ALL INKS WELL BEFORE EVERY USE.  
Containers 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 Uvispeed UX Seritone colour system includes a Pantone® approved matching database. Pantone colours may be easily and quickly mixed using formulae from the Uvispeed UX 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 UX-381 Extender Base 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

Uvispeed UX metallic shades may be tinted if required by 5 - 10% additions of Seritone base colours.

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.



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