



Seridisc Screen & Offset Inks

Seridisc is the complete family of premium UV curing inks, varnishes and coatings designed to fulfil the requirements of the optical media industry. The range includes a set of high viscosity line colours and a number of four-colour process sets for screen and wet-on-dry offset printing. A UV curing coating for the production of inkjet receptive, recordable media completes the range.

Seridisc Ink Ranges

Seridisc UR

A high viscosity, fast curing set of 22 line inks which include the Seritone Matching System and the fluorescent Hi-Light Matching System with PANTONE®* Matching Formulae. The ultra-low shrinkage during cure combined with excellent adhesion and resistance properties make these inks suitable for today's most demanding CD and DVD applications.

The UR Range also contains a comprehensive package of special URA products such as writable, protective or metallic varnishes. For more Details please refer to your local Sericol representative.

Seridisc CK

A four-colour process set of screen inks (to DIN 16538/9) for high-speed production of picture discs with superior quality. Combines excellent halftone definition with strong, vibrant colours.

Seridisc OF

A four-colour process set of offset inks to DIN 16538/9. Especially designed for wet-on-dry printing on modern Screen/Offset Combination Machines, these inks give maximum ink transfer while maintaining a low and controlled tack. Seridisc OF inks are highly recommended for use with Seridisc UR024 'Flash White' to give ultimate offset transfer and bright, colourful and photo realistic images.

Seridisc LS

UV based coating for the production of inkjet printable - recordable Media.

Newly developed 'Liquid Substrate' technology produces smooth and highly receptive surfaces, which form ideal bases for high definition, colourful and fast drying images on common inkjet printers.

Accelerated Life Testing

When printed and cured in accordance with our recommendations, Seridisc inks may be expected to pass any of the artificial ageing and environmental tests that are typically used throughout the Optical Media Manufacturing Industry. Typical test conditions are 60°C and 95% relative humidity for 500 hours followed by assessment of visual appearance, adhesion and hardness tests as well as a full evaluation of all relevant electronic properties.

Spin-coat Lacquers

Seridisc Screen inks are designed for printing over most commonly available spin-coat lacquers. Because of the wide variations in the chemistry of spin-coat lacquers and the differences in adhesion between on-line and off-line machine configurations, printers should ensure that the inks and lacquer are compatible before starting a production run.

Main Characteristics

Finish

Gloss.

Curing

Designed for printing and curing on modern printing machines, equipped with medium pressure mercury vapour lamps or fusion units.

Thinning & Wash-up

All Seridisc inks are supplied press ready.

Seridisc Screen inks can be washed up with Screen Wash Universal/ZT639.

Seridisc Offset inks can be washed up with any commonly available Ester based cleaners.

Cleaners containing mineral oil should not be used.

Stencil Systems for Seridisc Screen inks

Ink System	Mesh Count*	Recommended Stencil Type
Seridisc UR	150.31	Xtreme Screen **
Seridisc Trichromatic CK	165.31	Xtreme Screen **
Seridisc Offset OF	N/A	Presstek PEARLdry waterless offset or equivalent
Seridisc LS	120.31	Xtreme Screen **

* All mesh is dyed and plain weave.

** Xtreme Screen is Sericol's dedicated Stencil System for CD/DVD decoration. Its unique quality, durability and reliability makes it the No. 1 choice for every Screenprinter in this demanding industry.

For more information on Xtreme Screen please refer to the Sericol website, www.sericol.com, or contact your local Sericol representative.

Mileage in Production

Ink System	Mesh Count	Discs/kg ‡
Seridisc UR	150.31	8000-9000
Seridisc Trichromatic CK	165.31	9000-10000
Seridisc Offset OF	N/A	80,000-90,000

‡ All figures are calculated for printing a full coverage 'Donut'.

Co-use with other inks

Seridisc Screen inks can be intermixed and printed over any other ink in the Seridisc Screen ink range but must not be used in conjunction with any other ink.

IMPORTANT: Stir well before every use

Seridisc Screen & Offset Inks

Post Curing

The chemical reaction initiated by the UV Dryer when spin-coat lacquers are cured will continue for some time after pressing. In some circumstances this reaction can adversely affect ink adhesion, best results are achieved if printing immediately follows lacquer curing. This is particularly important in off-line printing installations.

Thinning

Seridisc inks are press ready but, where considered necessary, may be thinned as follows:

Ink	Product Code	Type	Maximum Addition
Seridisc UR	ZE818	Thinner	up to 5%
Seridisc CK	ZE822	Thinner	up to 5%
	ZE808	Gel Additive	up to 10%

The Seritone Matching System

The Seritone system enables printers to readily match special colours. It consists of nine colours, each selected for cleanliness of tone and suitability for intermixing.

001 (black) and 021 (white) are pigmented to achieve the ideal tinting and colour reducing power, and are therefore suitable for both colour matching and as printing colours.

UR501 Mixing Base is available for mixing into any of the standard UR colours when greater transparency or faster cure is desired.

The use of Universal Tinters is not recommended with any Seridisc ink.

The Seridisc Hi-Light Matching system

For improved accuracy, brightness and opacity the fluorescent Seridisc UR HI-Light system is recommended. The five additional HI-Light colours are used in combination with the Seritone base colours.

PANTONE® Matching Systems

The UR range has pre-matched formulations for the colours in the coated ('C' suffixed) section of the PANTONE Colour Formula Guide. In addition UR has pre-matched formulations based on the Seridisc HI-Light matching colours for improved accuracy of colour.

The Sericol package for colour management solutions also includes:

- **PANTONE® Colour Formula Guide**
- **Sericol Formula Guide** – A booklet containing formulations given in percentages by weight
- **Sericol HI-Light Formula Guide** – Containing formulations using fluorescent Seridisc HI-Light colours with Seritones
- **Minitint and Easytint Scales** – Pre-programmed with the Sericol formulations of PANTONE references to ensure maximum accuracy, speed and cost savings.
- **Ink Dispensers** – Fully automated and pre-programmed with Sericol formulations

Standard Colours

(s) = Seritone Base Colours

Seridisc UR

UR001	Black
UR009	Dense Black
UR010	Diamond Black
UR021	White
UR024	Flash White
UR025	Opaque White
UR064(s)	Seritone Yellow (Green Shade)
UR066(s)	Seritone Yellow (Red Shade)
UR114(s)	Seritone Orange
UR121(s)	Seritone Red (Yellow Shade)
UR164(s)	Seritone Red (Blue Shade)
UR165(s)	Seritone Magenta
UR127(s)	Seritone Violet
UR230(s)	Seritone Blue
UR325(s)	Seritone Green
UR501	Mixing Base
UR510	Screen and Offset Overprint Varnish

Available in 1 & 5 kg containers.

UR053	HI-Light Yellow L
UR104	HI-Light Orange L
UR137	HI-Light Red M
UR138	HI-Light Red D
UR167	HI-Light Magenta S

Available in 5 kg containers.

Seridisc CK

CK052	Yellow
CK135	Magenta
CK215	Cyan
CK004	Black
CK396	Extender Base

Available in 1 & 5 kg containers.

Seridisc OF

OF052	Yellow
OF135	Magenta
OF215	Cyan
OF004	Black
OF396	Extender Base

Available in 1 kg containers.

Seridisc LS

LS916	Liquid Substrate – IJR Coating
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Available in 1 & 5 kg containers

Reducers

ZE822	Seridisc Thinner
ZE818	Seridisc Thinner
ZE808	Gel Additive

Available in 1 ltr containers.

Seridisc Screen & Offset Inks

Cleaners

ZT639 Screen Wash Universal

Available in 15,5 and 1 ltr containers.

Storage

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

Seridisc 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 cool environment Seridisc inks are expected to have a shelf life of approximately 12 months from the date of manufacture. Seridisc Liquid Substrate – IJR Coating is expected to have a shelf life of up to 6 months.

Safety and Handling

Comprehensive information on the safety and handling of Seridisc inks is given in the appropriate Sericol Safety Data Sheets available on request.

Environmental Information

Seridisc inks:

- do not contain ozone-depleting chemicals as described in the Montreal Convention.
- are formulated free from aromatic hydrocarbons which are known to have an adverse effect on the environment.
- are free of any volatile solvent and therefore beneficial to the environment when compared to solvent-based products.
- contain Barium, but are formulated to comply with the EN71-3 1995 Toy Safety Standard.

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 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.

SERICOL
More than ink...Solutions.



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