



Seridisc Inks Line • Groundcoat White Inks • Trichromatics • Offset

Seridisc is the complete family of premium UV curing inks designed to fulfil the requirements of the optical media industry. The range includes a set of high viscosity line colors and four-colour process sets for screen and wet-on-dry offset printing.

Seridisc Ink Ranges

Seridisc UR

A high viscosity, fast curing set of 14 line inks that 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 makes these inks suitable for today's most demanding CD and DVD applications.

Seridisc UR

UR001 Black
UR909 Jet Black
UR021 White
UR024 Flash 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
UR382 Metallic Ink Medium
UR501 Mixing Base
UR510 Screen and Offset Overprint Varnish

Available in 5 kg containers.

(s) = Seritone Base Colours

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

Available in 5 kg containers

Seridisc Trichromatic CK

A four-color 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 colors.

Main Characteristics

Finish
Gloss - except UR909 Satin Finish.

Curing

Designed for printing and curing on optical disc 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*
Seridisc UR	150.31
Seridisc Trichromatic CK	165.31
Seridisc Offset OF	N/A

* All mesh is dyed and plain weave.

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 estimates 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. Seridisc offset may be printed over any Seridisc screen ink, but should not be intermixed.

* PANTONE® is the property of Pantone, Inc.

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Seridisc Trichromatic CKA

CKA10 Cyan
CKA11 Magenta
CKA12 Yellow
CK004 Black
CK396 Extender Base

Available in 5 kg containers.

Seridisc Offset OF

A four-color 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, colorful and photo realistic images.

Seridisc OF

OF052 Yellow
OF135 Magenta
OF215 Cyan
OF004 Black

Available in 1 kg containers

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.

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 with up to 5% ZE637.

Reducers

ZE637 Thinner

Cleaners

ZT639 Screen Wash Universal

The Seritone Matching System

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

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

UR501 Mixing Base is available for mixing into any of the standard UR colors 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 four additional HI-Light colors are used in combination with the Seritone base colors.

PANTONE® * Matching Systems

The UR range has pre-matched formulations for the colors in the coated ('C' suffixed) section of the PANTONE® Color Formula Guide. In addition, UR has pre-matched formulations based on the SERIDISC HI-Light matching colors for improved accuracy of color.

Color management solutions include:

- **PANTONE® Color Formula Guide**
- **Classic Silver** – Original PANTONE recipes direct on to disc.
- **Hi-Light Silver** – Original PANTONE recipes, enhanced by selective use of Hi-Light recipes direct to disc.
- **Classic White** – Original recipes over white 'donut' print.
- **Hi-Light White** – Original PANTONE recipes, enhanced by selective use of Hi-Light recipes over a white 'donut' print.
- **Pantone Formula Scales PF S3+** – Pre-programmed with the formulations of PANTONE references to ensure maximum accuracy.
- **Ink Dispensers** – Fully automated and pre-programmed with Nazdar formulations

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 a cool environment Seridisc inks are expected to have a shelf life of approximately 12 months from the date of manufacture.

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Nazdar Specialty Ink Systems Limited:

- 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.
- Research & development team, work to an in house Health, Safety and Environmental policy, termed 'Design for Health, Safety and Environment', with the aim of proactively developing products with the least impact on health, safety and the environment.
- Regularly review and monitor our impacts and activities, setting objectives and targets as part of a continual improvement process.
- Is committed to reducing waste through better use of raw materials, energy, water, re-use and recycling.

Safety and Handling

Seridisc inks:

- have a flashpoint greater than 55°C and are therefore not classified as a 'dangerous substance' under the Dangerous Substances and Explosive Atmospheres Regulations (DSEAR).

Comprehensive information on the safety and handling of Seridisc inks, solvents and associated products is given in the appropriate Safety Data Sheets.

Environmental Information

Seridisc inks:

- do not contain ozone-depleting chemicals as described in the Montreal Convention.
- are formulated free from aromatic hydrocarbons.
- are free of any volatile solvent and can therefore be considered to have less impact on the environment, when compared with solvent-based products.

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