

SERIDISC OM

UV Screen Inks for Optical Media Printing

SERICOL
More than ink...Solutions.
FUJIFILM

Features

- Formulated for Extremely Low Shrinkage to Increase OM Replication Latitude
- Very Fast Cure Rates (30mJ/cm² for Scan Pass Processing and 200mJ/cm² for Full Cure Processing)
- Smooth, High Gloss Finish
- Press Ready – No Additives or Modifiers
- Incorporates Unique “Soft Gel” Rheology – Will Not Drip Through Mesh
- Ideal Viscosity for Both In-Line and Off-Line Printing Equipment
- Superior Print Performance – Resulting in High Definition Picture Quality
- Excellent Adhesion to Polycarbonate and Major UV Spin Coat Varnishes
- SeriDisc Inks Do Not Contain N-Vinyl-2 Pyrrolidone (NVP), Amines, or Any Volatile Materials Which Can Fog Optical Discs.

Substrate Application

DVD Formats
CD Formats
HD-DVD – Formats
Blu-Ray - Formats

Mesh

SeriDisc OM prints and cures well through 355/in to 380/in (140 to 185/cm) monofilament polyester meshes. 355.31, 380.31 and 420.31 Plain Weave, or 380.34 Twill Weave are recommended for both solid donuts and fine copy.

Stencils



Stencil materials must be solvent resistant and produce a thin film stencil (3-6 microns over mesh). The ultra-high resolution, and ease of use built into Xtreme Screen 2.0

provides consistency and quality. The unique chemistry inherent in Xtreme Screen 2.0 also gives exceptional durability during long print runs. It is significantly more durable than traditional capillary film, and a match to the toughest dual cure and photopolymer liquid emulsions. Alongside a high level of print performance, Xtreme Screen 2.0 offer the end user consistent results over a wide range of operating conditions.

Every aspect of performance, from exposure through stencil development, to print quality has been optimized to ensure reliability of image from screen to screen.

Fujifilm Sericol's use of the latest stretching equipment, and tight quality control procedures guarantees a match to your specific tolerances, ensuring a dependable source of supply.

Curing

Ultraviolet curable inks are dependent on a high dosage of intense ultraviolet light in a spectral range between 250 and 360 nanometers to initiate cure. Light energy must penetrate the entire ink layer to achieve proper cure and ink performance.

SeriDisc OM inks are formulated to cure at maximum production rates of most Kammann, Autoroll, ODME, Omso, Dubuit, Hanky and Teca-Print compact disc printing equipment. SeriDisc OM inks will achieve full cure upon receiving 200mJ/cm². SeriDisc OM will achieve tack free cure with the use of a scan pass cure (30mJ/cm²).

Cure speeds are dependent on ink film thickness, opacity, color mixed, UV lamp intensity, reflector geometry, and reflector focal point.

SERICOL
More than ink...Solutions.
FUJIFILM



Technical Service:
800.737.4265



Customer Service:
800.255.4562

MEDIATECH
association

TDS/Revised 10/09 | 1

SERIDISC OM

UV Screen Inks for Optical Media Printing

SERICOL
More than ink...Solutions.
FUJIFILM

If under-cure is experienced with the SeriDisc OM inks, typically demonstrated by a wet ink film or loss of gloss, it is usually due to excessive ink film deposit.

To correct this, the pre-press and press mechanics, such as mesh, squeegee, color density, or the amount of UV energy, must be changed. Adhesion, according to industry standard tests, should be satisfactory immediately upon exiting the printing press with optimum adhesion developing in two to four hours.

Coverage

SeriDisc OM colors should yield coverage of 25,000 to 35,000 full coverage discs per US gallon.

Wash Up

Wash up on press with Xtend™ Press Washes and after the production run with Xtend™ Ink Degradents.

Pre-Production Test

SeriDisc OM inks are formulated to adhere to most UV spin coat varnishes and bare polycarbonate. However, it is strongly recommended that all applications be thoroughly tested before use in production. Type of spin coat varnish, depth of cure, surface hardness, delay between application of spin coat varnish and SeriDisc OM inks may affect printability, adhesion, and performance.

On-Disc Performance Testing

SeriDisc OM inks pass all industry standard electrical tests. All values were found to be well within industry specifications. Color Availability

The SeriDisc OM color range currently includes nine fluorescent colors, 3 ready-to-use metallic inks, a High Gamut halftone set (featuring **True Halftone Technology**), Overprints gloss and matte clears, and a Matte Black.

Halftone Colors

SeriDisc OM HiGamut Halftone colors deliver an optimum in image sharpness and color vibrancy.

The set features Fujifilm Sericol's new *True Halftone Technology* which provides an optimum in Grey Balance and Color Gamut. The OM HiGamut Halftone colors are matched to "SWOP" standards (Specification Web Offset Publication) when printed through a 460.27 Plain Weave mesh depositing approximately 10 to 12 microns of ink. If SWOP standards are used for color separations, no adjustment will be needed to the SeriDisc color density.

Standard Colors

OM-SHW Hi Yield Satin White

OM-GHW Hi Yield Gloss White

OM-MB Matte Black

OM-MO Matte Overprint Clear

OM-OP Gloss Overprint Clear

OM-BDW Blue Ray Brilliant White

Halftone Colors (Featuring THT - True Halftone Technology)

OM-HTY HiGamut Halftone Yellow

OM-HTM HiGamut Halftone Magenta

OM-HTC HiGamut Halftone Cyan

OM-HTK HiGamut Halftone Black

SERIDISC OM

UV Screen Inks for Optical Media Printing

SERICOL
More than ink...Solutions.
FUJIFILM

Fluorescent Colors

- OM-600 Chartreuse
- OM-605 Yellow RS
- OM-610 Fire Orange
- OM-620 Orange
- OM-640 Rocket Red
- OM-650 Pink
- OM-660 Green
- OM-670 Blue
- OM-680 Purple

Metallic Colors

- OM-871 Ready2use Metallic Gold GS
- OM-876 Ready2use Metallic Gold RS
- OM-877 Ready2use Metallic Silver
- OM-MG Ready2use Metallic Grey

Using a 380.31 PW mesh, additional metallic colors can be blended like this:

SP OM PMS 872 GOLD

| Range | Item | Description | Ratio |
|-------|----------|-------------|-------------|
| OM | OM-871/4 | 871 Gold | 83.44% |
| OM | OM-876/4 | 876 Gold | 16.56% |
| | | | 100% |

SP OM PMS 873 GOLD

| Range | Item | Description | Ratio |
|-------|----------|-------------|-------------|
| OM | OM-871/4 | 871 Gold | 70.00% |
| OM | OM-876/4 | 876 Gold | 30.00% |
| | | | 100% |

SP OM PMS 874 GOLD

| Range | Item | Description | Ratio |
|-------|----------|-------------|-------------|
| OM | OM-871/4 | 871 Gold | 59.32% |
| OM | OM-876/4 | 876 Gold | 40.68% |
| | | | 100% |

SP OM PMS 875C GOLD

| Range | Item | Description | Ratio |
|-------|----------|-------------|-------------|
| OM | OM-871/4 | 871 Gold | 49.02% |
| OM | OM-876/4 | 876 Gold | 50.98% |
| | | | 100% |

Safety and Handling

Refer to MSDS for safety, handling, and waste disposal information.

Storage

Containers should be tightly closed immediately after use. At the end of long printing runs, surplus ink from the screen should be disposed of. SeriDisc OM inks should not be stored in direct sunlight or extreme temperatures. Refer to Material Safety Data Sheet (MSDS) for materials and conditions to be avoided.

In the interest of maximum shelf life, storage temperatures should be between 50°F (10°C) and 77°F (25°C). When stored under these conditions the maximum shelf life is shown by the use by dates, which are clearly marked on all ink containers.