



Seridisc Liquid Substrate Ink Jet Receptive LS916

Seridisc Ink Jet Receptive LS916 is a UV curing coating incorporating open matrix polymer technology for the production of inkjet receptive, recordable media.

LS916 has been developed for printing recordable media, which are subsequently decorated by inkjet printers. LS916 has a smooth matt finish with micro porous absorption properties, which readily accepts water-based ink jet from most printers.

Print Recommendations

To achieve optimum ink jet receptivity 2 layers of LS916 must be printed through a 120.31 mesh and fully cured via a high intensity UV light in the spectral range between 250-370 nanometers. The recommended ground coat white product is UR024.

For optimum results moulded squeegee blades are recommended.

In order to avoid moiré it is recommended that 2 different angles of mesh are used for printing the 2 layers.

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 for inkjet receptive discs. Typical test conditions are 70°C and 50% relative humidity for 500 hours. Once over printed with ink jet, users must satisfy themselves as to the durability of the disk.

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.

We recommend

Prior to commencing any process after inkjet printing, it is the responsibility of the end user to ensure that the process is compatible with the printed disc.

Given the nature of this process Sericol cannot be held liable for any post production changes within the final ink jetting process. Prior to commencing a production run customers must satisfy themselves as to the suitability of the end product.

Main Characteristics

Finish

Smooth, matt finish for high definition inkjet prints.

Curing

Designed for printing and curing on all modern printing machines equipped with medium pressure mercury vapour lamps.

Thinning & Wash-up

No thinning is required as LS916 is designed to be press ready. LS916 can be washed up with Screen Wash Universal ZT639.

Mesh

No.120.31 PW is recommended.

Stencil Systems

Solvent resistant.

Xtreme Screen is recommended. Xtreme screen is Sericol's dedicated stencil system for CD/DVD decoration. Its unique quality, durability and reliability make it the No. 1 choice for this demanding industry.

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

Coverage

When printed through a 120.31 screen, 3,000 full coverage (donut) prints are achievable per kg, when using the required 2 coats. See section 'print recommendations'. For full details.

Co-use with other inks

LS916 has been formulated to enable both under and over printing with the Seridisc CK or UR product ranges from Sericol.

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 other sources of heat and should be kept away from peroxides.

In the interest of maximum shelf-life, storage temperatures should be between 10°C and 25°C.

Seridisc Liquid Substrate LS916 is expected to have a shelf-life of 6 months from date of manufacture

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:

- are formulated to be free from any toxic, carcinogenic, mutagenic or reprotoxic chemicals.
- 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.

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.

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