



UV Compact Disc Ink (UVCD)

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PROPERTIES

UVCD is an Amine and NVP(n-vinyl pyrrolidone)-free, UV cured ink specially formulated for specially designed for compact disc printing. It has been formulated with optimum rheology to give good definition and prevent drip through, yet still maintain good flow when printed. It has excellent adhesion to both UV spin-coated and uncoated polycarbonate discs. UVCD is suitable for decorating all areas of the top, non-read side of compact discs. The superior flow properties and viscosity gives the finished print excellent definition.

INSTRUCTIONS FOR USE

Thinning and Cleaning

- Stir well before use.
- UVCD inks are supplied press-ready. If the viscosity of the ink is too high, it should be thoroughly mixed with 5-10% Thinner 2000 before printing. If too much Thinner 2000 is added, the colour intensity will be reduced and the shade of the ink may be altered.
- Cleaner 2940 should be used to clean UVCD from the screen. For heavy ink stains, Screensolve can be used. Please refer to the relevant P.I. Sheets for more information.

Printing

- UVCD inks can be printed through any type of mesh, but for the best printing results it is recommended that P140-34 to P180-31 mesh is used.
- UVCD can be printed through a variety of stencils, such as Diazol Plus Ultra (U016).
- 1 Kg of ink will print approximately 5,000 - 6,000 discs when using P150-31 mesh and a 70-80 shore polyurethane squeegee.

Due to the wide range of coatings available, it is advisable that the ink be tested fully prior to printing.

Curing

UVCD should be cured through a UV curing unit using a medium or high pressure mercury vapour lamp. The UV light wavelength should be 300-400 nm. The curing speed of UVCD is about 60 discs per minute.

Spin Coat Lacquer and UVCD Application

UVCD is suitable for printing over most spin coat lacquers, but UV Spin-Coat Lacquer UVL093 is recommended. Due to the variation in lacquers, printers should ensure that the lacquer and ink are compatible before starting a production run. Do not over expose the compact disc as this can adversely affect the ink adhesion.

COLOUR RANGE

The UVCD ink range consists of 7 colours: 3 standard colour and four trichromatic colours.

Standard Colours

UVCD201	UV Compact Disc Ink	White
UVCD202	UV Compact Disc Ink	Fast Curing White
UVCD290	UV Compact Disc Ink	Opaque White
UVCD090	UVCD Extender Base	Clear

Trichromatic Colours

UVCD110	UV Compact Disc Ink	Trichromatic Black
UVCD310	UV Compact Disc Ink	Trichromatic Yellow
UVCD510	UV Compact Disc Ink	Trichromatic Magenta
UVCD610	UV Compact Disc Ink	Trichromatic Cyan

Thinners and Cleaners

2000	UV Ink Thinner
2940	Cleaner

STANDARD PACKING

UVCD inks are available in 1Kg containers.
The Solvents are available in 200 ltr, 20 ltr, 5 ltr and 1 ltr containers.

STORAGE

UVCD inks should be stored in a sealed container between 10-25°C. They should be stored away from warm pipes and peroxides. When stored in a cool environment the inks will have a shelf life of 12 months from the date of manufacture.

SAFETY AND HANDLING

- UVCD inks should be used with care. Wear suitable PPE, for example, appropriate gloves and safety glasses.
- All colours are non-toxic colours and comply with the following standards: EN71 Standard of the European Economic Community, the United Kingdom Toys (Safety) Regulation 1974, the DIN EN 71 Standard of Germany and French Toys Standard NF 551204, Title 16, Code of Federal Regulations of U.S.A.
- UVCD is amine and NVP(n-vinyl pyrrolidone)-free.
- UVCD does not have a flash point and is, therefore, exempt from the Highly Flammable Liquid Regulations.
- Whilst working with the ink, the consumption of food and drink, and smoking are not recommended.

Please consult the information on ***The Safety and Handling of UVCD inks*** in the Chaiyaboon Material Safety Data Sheet.

ENVIRONMENTAL INFORMATION

UVCD Inks:

- Are formulated free from ozone depleting chemicals as described in the Montreal Convention.
- Do not contain heavy metals.
- Are free from aromatic hydrocarbons, known to have an adverse effect on the environment.
- Do not have any volatile solvents and are therefore less harmful to the environment when compared with solvent-based products.

TECHNICAL SERVICE AND INFORMATION

For further information or other relevant data, please do not hesitate to contact us. Chaiyaboon Brothers Company (CBC) has a team of well-trained personnel who are ready to give help and advise regarding product information and application.

UVCD 3-0801

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 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.