

Product Data Sheet

Screen Printing Varnish

SunChemical®
Coates Screen Inks

CDR-JPV

UV-Curing Pre-print Varnish for CD-R + DVD-R, 1-Component

APPLICATION

Special pre-print varnish for CD-R and DVD-R. Suitable for subsequent decoration with Inkjet, thermal printers or pen and pencil.

PROPERTIES

- Solvent-free UV-curing screen varnish CDR-JPV has a high reactivity.
- This varnish is delivered in a ready-to-print adjustment. Varnish CDR-JPV results in a mat finish with milky transparency.
- CDR-JPV is formulated for overprinting with Inkjet and thermal printers.
- Note: Because of the variety of different equipment types suitability of individual CD printers for decoration of the CDR-JPV layer should be determined by corresponding pre-trials.
- Disks pre-printed with CDR-JPV can be decorated for a period of 12 months after printing. However, prior to each overprinting carry out trials to confirm adhesion of the decoration.
- We also offer a white pre-print for the same application: CDR-JPW

PRODUCT - OVERVIEW

- Pre-print varnish: CDR-JPV Low to medium viscosity, matt, milky transparency
- Pre-print white: CDR-JPW Low to medium viscosity, matt, white, transparent

LIGHT FASTNESS

CDR-JPV and CDR-JPW are only suitable for indoor applications.

ADJUSTMENT FOR SCREEN PRINTING

- Screen printing varnish CDR-JPV is supplied in a ready-to-print adjustment.
- Generally, addition of auxiliary agents is not necessary. If necessary varnish can be thinned with small amounts of water.
- Prior to printing, the varnish should be stirred well to obtain a homogeneous dispersion of all ingredients.

AUXILIARY AGENTS

Application	Product	Addition in % by weight	Additional Information
Thinner	Water	1 - 3%	Over-dosage will cause printability problems.

DRYING / UV-CURING

- CDR-JPV and CDR-JPW only dry/cure under UV-radiation.
- Suitable UV-driers with Hg medium-pressure lamps (250 – 400 nm) and an efficiency between 80 and 200 W/cm have to be used.
- Preferably, use reflectors with a focussed radiation.
- Ensure an even radiation (intensity/distance to the lamps) of the whole printed image.
- The UV-energy required depends on construction/performance of the UV drier, the thickness of the printed varnish layer and type of substrate. Hence, printers should determine the exact required energy with their own UV-drier.
- **UV-curing energy guide values:**
UV-energy: **approx. 200 mJ/cm²** (printed with 120-34 fabric)
 (measured with Kühnast UV-integrator, 250 – 410 nm, max. 365 nm)
Printing speed: **60-80 disks/minute on automatic CD-printing equipment.**

- Adhesion should only be checked several minutes after UV-curing. Due to the post-curing process of the varnish and depending on the substrate, sufficient adhesion may sometimes only be achieved after up to 12 hours.

SCREEN FABRIC / STENCILS

CDR-JPV and CDR-JPW have been formulated for printing with fabrics of 120 threads/cm. Depending on Inkjet printer used fabrics ranging from 165 – 180 threads/cm are also possible.

All copy emulsions and capillary films suitable for solvent based and UV-curing screen inks can be used, such as our program of SunCoat or Murakami products.

1 litre of varnish has a yield of approx. 5.000 - 7.000 disks.

CLEANING

Uncured UV varnishes can be removed from stencils and tools using our solvent based universal cleaning agents of the URS range.

Cleaning of cured UV varnishes is very time-consuming and hardly ever possible.

Note: As the acrylates contained in these UV varnishes may cause skin irritation, clean contaminated skin with water and soap immediately. Remove and clean contaminated clothing straightaway.

PACK SIZE

CDR-JPV and CDR-JPW are delivered in 1 litre containers. Other pack sizes are available upon request.

SHELF LIFE

In closed original containers, CDR-JPV and CDR-JPW varnishes generally have a shelf life of 1 year from date of production.

For exact date of expiry, please refer to the label.

SAFETY DATA SHEETS

Read safety data sheet prior to processing.

Safety data sheets comply with Regulation (EC) No. 1907/2006 (REACH), Appendix II.

CLASSIFICATION AND LABELLING

Hazard classification and labelling comply with Regulation (EC) No. 1272/2008 (CLP/GHS).

CONFORMITY

Coates Screen Inks GmbH does not use any of the substances or mixtures for the production of printing inks, which are banned according to the EUPIA (European Association of the Printing Inks Industry) exclusion policy.

Further compliance confirmations are available upon request.

ADDITIONAL INFORMATION ABOUT OUR PRODUCTS

Internet: Various technical articles are available for download on www.coates.de, section "SN-Online"

The statements in our product and safety data sheets are based on our present experiences, however they are no assurance of product properties and do not justify a contractual legal relationship. We provide these details to inform customers about our products and their possible applications. However, on account of various factors influencing processing of our products it is absolutely essential to carry out printing trials under local production conditions. Choice of individual ink types and their suitability for the intended application is the sole and entire responsibility of the user. We do not assume any liability for any problems of technical or process-related nature. Any liability shall be limited to the value of the goods delivered by us and processed by the user.

All former product data sheets are no longer valid.

June 2019 - Version B1

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