

INK, HEART & SOUL

TECHNICAL DATA SHEET

SICURA JET Matt Varnish

High Performance single-pass UV-curable matt varnish
for drop-on-demand inkjet printing

SICURA Jet Matt Varnish

The SICURA Jet Matt Varnish is an UV-curable high performance jettable protective overprint varnish solution designed for industrial inkjet printing on multiple applications, including decorative printing, direct-to-shape printing, packaging and label printing. The product gives a matt appearance to the final application and it can either be used on certain areas only or on the full surface.

The SICURA Jet Matt Varnish has been developed for single-pass, piezo, drop-on-demand industrial inkjet printing at high resolution using printheads from Konica Minolta, Ricoh, Seiko, Toshiba. Printheads with big nozzles and recirculation up to the nozzle plate are recommended for this product.

This varnish can be used for printing on rigid as well as thin and flexible materials or in direct-to-object printing projects.

The SICURA Jet Matt Varnish is designed for extremely good adhesion on the Siegwerk SICURA Jet ink series.

This product can be customized and adapted to end-user applications. If needed, Siegwerk can tailor varnish properties (e.g. viscosity & adhesion) and even address further special customer requirements. Depending on the application, Siegwerk can also advise on suitable primers.



Field of use

The SICURA Jet Matt Varnish is designed for single-pass inkjet printing with piezo drop-on-demand printheads including printheads from Konica Minolta, Ricoh, Seiko, Toshiba or Xaar which require regular viscosity inks/varnishes/primers. It is NOT recommended for thermal inkjet, continuous inkjet of any kind or any other print technology systems. In any case of uncertainty, please contact our application technology experts via contact.inkjet@siegwerk.com.

Key benefits

CHARACTERISTIC	BENEFIT
Jetting performance	The product is formulated for high performance piezo drop-on-demand printheads requiring regular ink viscosity. Well suited for high resolution jetting at high frequencies. Good storage stability.
Matt effect	The product gives a matt appearance to the final printed product.
Safe to use	Secure formulation without hazardous substances (CMR) to ensure safe handling.
Applications	The product can be used on a wide range of applications.

Functional Specifications

- Matt appearance
- High curing speed with bulbs and/or UV LED
- Printing on a broad range of plastic materials as well as other types of materials
- Product parameters suited for jetting with industrial piezo print heads requiring regular viscosity range
- Very good storage stability
- Suited for binary print mode (including large drop size)

Note: the print conditions depend upon the choice of substrate, print mode, print resolution, print speed, printhead, throwing distance, etc.

Shelf life & storage conditions

- Shelf life is 12 months from production date when stored under recommended condition
 - Storage properly closed in Siegwerk bottles/cans
 - Temperature control between 4 °C – 23 °C (39 °F – 73 °F)
 - No direct sun light
 - Not close to heating elements and UV-light containing radiation sources
- Product should be homogenized before usage
- Before filling the SICURA Jet Matt Varnish in new ink systems, rigorously flushing is recommended
- Siegwerk products should not be mixed with any other products, used together with any non SICURA Jet flush or get diluted
- It is advisable to turn over the inventory according to the delivery date (first in – first out)

Auxiliary products

We recommend our SICURA Jet flush as a cleaning solution. Please consult with our sales team for further specific recommendations.

Safety Information

Material safety Data Sheets for SICURA Jet Matt Varnish are available according to EC regulation 1907/2006, informing in detail about all relevant safety data, including labeling according to the present EEC regulations as to health and safety labeling requirements.

The SICURA Jet Matt Varnish is fully compliant with the REACH Regulation including the special provisions concerning SVHC (Substances of Very High Concern - most recent update January 17, 2023).

SICURA Jet Matt Varnish recipe does not comprise:

- CMR 1 & 2 substances as listed in Annex VI of CLP-regulation 1272/2008
- 2-isopropyl thioxanthone (ITX)
- Benzophenone, 4-Methyl-benzophenone, 4-Hydroxy-Benzophenone
- NMP
- Heavy metals : Lead, Chromium, Cadmium, Mercury

The Ink Safety Portal on our homepage offers condensed knowledge on crucial Product Safety and Regulatory topics with regard to printing ink ingredients, regulatory affairs, exposure assessments and safety evaluations. You can access this via the following link: www.Siegwerk.com/ink-safety-portal

Note: Our technical advice whether spoken, written, or through test trials, corresponds to our current knowledge about our products and their use. This is not meant as an assurance concerning certain properties of the products nor their suitability for each application. Our customers are therefore obliged to conduct their own tests with our supplied products to confirm their suitability for the desired process or purpose. The selection and testing of the ink for a specific application is exclusively the customers' responsibility. This data is communicated for information purposes only and is provided without any warranty on our part. We disclaim any liability for applications for which this ink series is not foreseen. If you have any questions, please do not hesitate to contact us at contact.inkjet@siegwerk.com