

INK, HEART & SOUL

TECHNICAL DATA SHEET

SICURA NUTRIJET GLM Primer

High Performance single-pass UV-curable Low Migration
Primer for drop-on-demand inkjet printing

SICURA NutriJet GLM Primer

The SICURA NutriJet GLM Primer is an UV-curable high performance jettable Primer solution designed for industrial inkjet printing on multiple applications, including decorative printing, direct-to-shape printing, packaging and label printing.

The SICURA NutriJet GLM Primer has been developed for single-pass, piezo, drop-on-demand industrial inkjet printing at high resolution using printheads from Kyocera, Fuji Samba, Ricoh (MH5220) and Epson.

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

The SICURA NutriJet GLM Primer is designed to improve the adhesion and the spreading of the Siegwerk SICURA NutriJet GLM inks on challenging substrates. The pinning and curing of both the primer and the inks have to be adjusted depending on the printing parameters.

The SICURA NutriJet GLM Primer is particularly well suited for applications with high product safety and regulations (PS&R) demands such as food or pharma packaging. When needed, Siegwerk can support risk assessments and real case migration and fastness testing for PS&R sensitive applications - verifying system compliance.

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



Field of use

The SICURA NutriJet GLM Primer is designed for single-pass inkjet printing with piezo drop-on-demand printheads including printheads from Kyocera, Fuji Samba, Ricoh (MH5220) and Epson which require low viscosity inks. 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 low ink viscosity. Well suited for high resolution jetting at high frequencies. Good storage stability.
Dried film performance	Excellent adhesion and flexibility on a broad range of substrates. Improves the laydown and spreading of Siegwerk inks, which are jetted on top of the product.
Shelf life	Long shelf life (12 months from production date).
Product Safety and Regulations	Low-migration capable. Migration-sensitive applications possible, including pharma, food and hygiene packaging. Risk assessment and real case migration testing need to be carried out individually.

Functional Specifications

- Single-pass wet-in-wet printing or printing using intercolor pinning
- Curing with bulbs and/or UV LED; curing dose needs to be optimized in function of migration limits
- Printing on a broad range of plastic materials and many more (suited for migration-sensitive applications)
- Product parameters suited for jetting with industrial piezo print heads requiring low viscosity range
- Very good storage stability, long shelf life
- Good jetting reliability and low print head maintenance need
- 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
- Note that the SICURA NutriJet GLM Primer is packed in not completely filled bottles or canisters, this improves the shelf life of the product.
- Before filling the SICURA NutriJet GLM Primer in new ink systems, rigorously flushing is recommended
- Siegwerk products should not be mixed with any other ink products, used together with any non SICURA NutriJet GLM 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 NutriJet GLM flush as a cleaning solution. Please consult with our sales team for specific recommendations.

Safety Information

Material safety Data Sheets for the SICURA NutriJet GLM Primer 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 NutriJet GLM Primer is fully compliant with the REACH Regulation including the special provisions concerning SVHC (Substances of Very High Concern - most recent update January 17, 2023). All ink compounds comply with the EuPIA Exclusion Policy as well as the EuPIA Guideline on printing Inks applied to the non-food contact surface of food packaging materials and articles. The ink and flush are produced according to GMP standards. Furthermore, all compounds are in accordance with the CEPE 'Exclusion List for Printing Inks and Related Products'.

Provided that the product is used according to the information given in the Technical Data Sheet, or in equivalent communications, and correctly processed, and provided that the food packaging is designed in such a way that there is no intended direct food contact, Siegwerk confirms that it will in principle allow compliance of the final product with the Regulation (EC) No 1935/2004, the Swiss Ordinance 817.023.21 and the Nestlé Guidance Note on Packaging Inks requirements (version 5.0, October 2018).

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 no 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