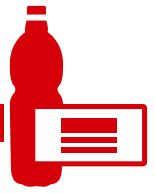


NARROW WEB

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... or let us meet directly on
Siegwerk's bus outside the hall.



We look forward to seeing you!

Low Migration LED UV Inks for Food Packaging

Siegwerk is the first manufacturer to bring out low migration LED UV printing inks for food packaging.

An increasing number of printers are opting for LED UV technology. Five years ago, Siegwerk was the first to develop working LED UV inks. Now – after extensive testing and successful production – Siegwerk is again **the first to provide low migration LED UV inks for printing food packaging and labels.** A highly welcome innovation for the industry! The new LEDTec ink series is based on the successful series SICURA Nutriflex 10.

LED UV lamps only emit light in a narrow spectral range. Energy-wasting IR radiation and hazardous UV-B and UV-C radiation



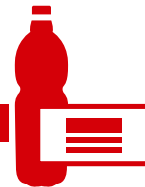
are a thing of the past. Besides energy efficiency and low heat production, another advantage is that no ozone is produced, so there is no longer any need for extraction.

The most successful UV Opaque Whites by Siegwerk

Product name	Article number	Viscosity Pa.s @ 23°C	Pigmentation	Wax*	Silicon*	Comments
Flexo White E02	81-010166-7	1.20	high			
Flexo White E03	81-000173-5	0.90	high			
Flexo White E08	81-010328-3	0.40	very high			Screen Imitation
Nutriflex White E01	81-000174-3	0.50	medium			Low Migration
Nutriflex White E02	81-011513-9	0.90	medium			Low Migration
Nutriflex White E05	81-010237-6	1.00	very high			Low Migration
Flexo Sleeve-White E02	81-010247-5	0.80	high	-	x	
Flexo Sleeve-White E04	81-010332-5	0.50	very high	x	x	
Flexo Sleeve-White E60	81-011526-1	1.00	high	x	-	
Flexo Sleeve-White E10	81-010304-4	0.80	high	-	x	
Nutriflex Sleeve-White E04	81-010356-4	1.10	high	x	x	Low Migration



* Wax or silicon are used in sleeve colors to achieve the necessary coefficients of friction (COF).



New low migration UV Relief Ink

*Process: UV screen printing | Application: Labels, pharmaceutical and food packaging | Series: SICURA Nutriscreen
Product number: 85-600579-8*



This transparent and shiny UV relief ink has been developed specially for tactile warning symbols.

The new low migration UV screen printing relief ink is especially suited to small-area printouts onto pharmaceutical and food packaging. The relief ink stands out for almost imperceptible odor and lowest migration potential. It is also flexible and scratch-proof.

Solving Problems

Checking the Curing of UV Opaque White and UV Varnishes using the Potassium Permanganate Test

To check for correct curing of UV opaque white and UV printing varnishes, one first creates a reference sample by dripping a drop of 5% potassium permanganate solution (KMnO_4) onto a fully cured printout and then dabbing it off after 30 seconds. Because potassium permanganate is a strong oxidizer, un-crosslinked acrylate double bonds go dark, thus indicating insufficient curing. Control samples can



The paler the patch, the better the opaque white/the varnish has cured.

then be produced in the same way during production and compared with the reference sample by densitometrically measuring the colored patch. Yellow = ok, red or brown = insufficient.

Find out more from your Siegwerk application technician.

Find Technical Data Sheets Quickly

(in the Downloads section)

You can now find the technical data sheets quickly and easily on the website www.siegwerk.com > Downloads > Technical Data Sheets > Narrow Web > English > Select series.

Welcome ...



George Ashmore. Since September last year, he heads our Technical Customer Service in the UK. With his experience in the narrow-web field, he is a competent partner for our customers.
(george.ashmore@siegwerk.com)

New Siegwerk Customer Portal: Security Data Sheets online!

As of December 2015, customers can easily view the security data sheets on our website. Customers in Europe and Asia can log in to the website with their customer number under «mySiegwerk» and directly access the Downloads area, where they can find important documents on their products.

Printer's Corner

How to successfully print UV Metallic Inks

UV metallic inks have certain special properties. Siegwerk has issued a new «explicit» on this topic, which your Siegwerk application technician will bring to you at request.