



News from Labelexpo in Brussels



«Interest in LED-UV surpassed all expectations»

The main benefits of the latest UV technology with LED-UV lamps are energy savings from 50% to 80%, elimination of air exhaustion and improved work safety. Exhibition visitors were extremely interested in this new technology, and the Gallus booth where the new drying system was demonstrated in action was well frequented.

Siegwerk is the first printing ink manufacturer to develop UV flexographic printing inks for this new technology. The complete LED-UV

drying system was implemented through the joint efforts of Siegwirk with Phoseon Technology (USA) and the Gallus Group's development and production site in Langgöns/Germany (www.phoseon.com; www.gallus-group.com).

Stefan Heiniger, VP Research & Development at the Gallus Group, explained enthusiastically: «This UV drying system that we jointly developed with our partners shows that sustainability and innovation can go very well together.»

Process: UV Screen Printing
Application: Labels

Lovely effects with matt inks

SICURA SCREEN 78-6 (silicone-free)

It's no longer problematic to use matt inks in UV screen printing. Siegwirk's new matt inks for UV screen printing can make your labels look even more appealing. Just select the desired pantone colour and order the ready mixed ink.

The matt inks stand out for their good adhesion properties and optimum scratch resistance. They are based on state-of-the-art additive

technology with benefits that include improved curing of the ink film. Even the occasional problem of pinholes (minute holes in the next ink printed) is not an issue. These inks can be used on a **wide range of synthetic label materials**. Since they are silicone-free, they can be hot stamped without problems and overprinted with other UV inks. The matt varnish is available separately under with product number 85-600406-4.

Process: UV Offset, UV Letterpress
Application: Labels

New one-component silver with an even more intense gloss

*MT Rad Silver 9001
Product number: 71-400136-9*

You can now conjure up some very impressive silver effects on your labels. When printing labels with silver tones, very high gloss is vital. Siegwirk's new one-component silver for UV offset and UV letterpress is even more brilliant than usual due to its carefully selected pigments and specially balanced binding agents. It receives a significantly higher rating in a **gloss measurement** than conventional silver for UV offset printing.



The new silver has no problems during printing and adheres very well to plastic labels. It has low odour (but is not low-migration), exhibits outstanding stability, and is free from benzophenone, 4-methylbenzophenone and ITX.

During a **gloss measurement**, the reflections from a beam of light are recorded. The beam is directed towards the object at specific angles using a special device. (See BYK-Gardner: www.byk.com or www.rhopointinstruments.com)

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«Best White Ever» – Opaque white for wrap-around labels

«NT Etikett is a major printer belonging to the CPT Group and located in Nässjö (Sweden). The company specialises in wrap-around labels. For weeks at a time, it prints mineral water labels for one of Sweden's largest beverage manufacturers. The company often produces orders totalling around 300,000 m in length.

NT Etikett uses Siegwerk's UV flexographic opaque white 81-010166-7 in combination

with the SICURA FLEX 39-8 series on OPP film. Machine speeds of 150 m/min are achieved with good results.

The printers at NT Etikett say this is the best white they have ever used for printing. They say the viscosity, opacity and drying speed are ideally matched to the Gallus EM printing machines used at NT Etikett.»

Per-Olof Wilson, Technology Manager
BU Labels/Sweden



Process: UV Screen Printing
Application: Labels

Highly flexible UV relief varnish for tactile lettering and symbols

SICURA SCREEN 78-3
Product number: 85-600411-4

This new UV relief varnish's most prominent quality is its **flexibility**. Despite its considerable thickness, this relief varnish doesn't break.



Moreover, it is highly transparent and prints with practically no air pockets.

The new relief varnish is ideal for production of transparent labels with **tactile symbols and lettering**. It cures with a relief height of approximately **250 µm** (it is applied with a Gallus Screeny BZ or a Stork Rotamesh 75/40 screen with 200 µm stencil coating).

Instead of stamping tactile information for the visually impaired, it is now possible to simply affix a label with the same tactile information on the packaging. The label's transparency ensures that the text underneath is still legible.

Process: UV Offset
Application: Labels

New: Daylight fluorescent inks for UV offset

SICURA PLAST
PMS 802 (green) Product number: 71-500290-3
PMS 806 (pink) Product number: 71-800870-9

Normally, the applied ink layer in offset printing is relatively thin, so daylight fluorescent inks typically do not have much luminance with this printing process. Siegwerk's newly developed daylight fluorescent inks for UV offset printing are all the more impressive as a result. Innovative raw materials have made these UV daylight fluorescent inks even more forceful and attractive. Their intensity and **significantly improved printability** are highly convincing.

The pantone shades PMS 802 (green) and PMS 806 (pink) are currently available. Other colours are under development. ◆

HSE Health Safety Environment

Do you print food packaging?

For many years, Siegwerk has been offering **Low Migration ink systems** for migration-sensitive applications. When manufacturing food packaging with UV printing inks, be aware that standard UV curing inks and varnishes can contain photoinitiators and other substances with high migration potential. In line with the GMP Regulation (EC) No. 2023/2006, the printer and the packer/filler **have to ensure that there is no migration of concern** (limit 10 ppb) from the ready-made packaging to the foodstuff. Unless there is a reliable barrier between the printed layer and the content, **only UV Low Migration inks and varnishes must be used**.

To its customers, Siegwerk offers assistance in the form of a PDF document entitled «Selection of Siegwerk UV Low Migration Systems» containing a listing of food packaging applications with high migration risk and recommended Low Migration inks. Please contact your Siegwerk interlocutor if you would like to receive this PDF information.