

UPDATE

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Review of the INGEDE Symposium in Munich

An important topic of the conference was the deinkability of cross-linked inks. Thomas Glaser, Head of Technology Sheetfed at Siegwirk, announced that fully deinkable UV inks have been on the market since last year.

Until recently, UV printing inks generated by energy-saving LED curing systems could hardly be deinked; they left colored dots on the recycled paper. At the INGEDE Symposium in Munich, Thomas Glaser (Siegwerk) and Peter Hengesbach (Support Center of Stora Enso) **presented new excellently deinkable ink series, equally suitable for LED and low energy UV printing (H-UV, LE-UV, e. a.) as well as for conventional UV printing.** The good deinking properties have been proven by Stora Enso, CTP and INGEDE. Siegwirk's cooperation with the research



Thomas Glaser at the symposium

department of INGEDE member Stora Enso began as early as 2017. **Meanwhile, the deinkable LED UV inks are on the market.** (Please also look at the article in the last issue of update: «Siegwerk UVLED inks prove great deinkability on various paper grades»)

NEW: UV LED flexographic Gloss Varnish

Process: LED UV flexographic printing
Application: Commercial
Series: SICURA LNRGY/LED
Product number: 89-601 994-0



Gloss measurement

This high gloss UV overprinting varnish is practically yellowing-free.

It is appreciated not only for its excellent gloss but also for its fast curing and for its good abrasion resistance. While LED varnishes usually tend to yellow, **this new gloss varnish is practically yellowing-free due to the specially selected raw materials and binders.**

TEMPO Nutristar – the new vegetable-based offset series

Process: Conventional offset
Application: Food packaging, commercial
Series: TEMPO Nutristar

Manufactured in a dedicated production for low migration products.

It is another innovation from Siegwirk: This new offset series is based on a vegetable concept with high content of renewable raw materials. No volatile organic compounds, no metallic salts or cobalt derivatives, no antioxidants and a very low level of impurities. The Nutristar inks have a stable ink/water balance and a wider operation window while offering



the lowest tendency to migrate. They are compliant with the EC 1935/20041 regulation, with the Swiss Ordinance 817.023.21, with the EuPIA Guidelines 2023/2006 as well as Nestlé Guidance and the Plastic Regulation 10/2011.



SICURA Card Pro – a new UV offset series for credit cards

Process: UV offset

Application: Credit cards

Series: SICURA Card Pro



It is important that the ink immediately adheres well to the plastic material.

This new series is showing good and stable ink/water balance as well as an excellent flow transfer through the printing unit.

The bond strengths have been improved significantly and lead to more stability in the production of the credit cards. Of course, the new series is free of the reclassified photoinitiators 369, EDB, EHA and PBZ.

SICURA Plast Luxe for highest quality printing

Process: UV offset

Application: Luxury packaging

Series: SICURA Plast Luxe

A new series, specially created for luxury packaging.

SICURA Plast Luxe is a new UV range dedicated to packaging for cosmetics, perfumes, spirits and champagnes. It is designed to match the high-end expectations of luxury packaging. The series features exceptional adhesion on various substrates, from board to metallized polyester films. With its excellent resistance to transportation scratches, it is anticipating the disappearance of cellophane films for perfume packaging.

Thanks to the selection of a wide range of mono-pigmented basic colors, there are unlimited possibilities for color creation. Furthermore, optimum light resistance and stability over time are guaranteed.



The inks show excellent stability at high speed on offset presses (15'000 sheets/hour) and optimized dot gain definition with the four-color process inks meeting the ISO 2846-1 standard. The new series is also free of reclassified photoinitiators.

Stability and excellent dot sharpness with AQUA LED

Process: UV offset

Application: Fountain solution

Product number: 85-060001-6

Especially developed for offset presses equipped with low energy and LED UV curing systems.

Often, the role of the fountain solution is underestimated. Over-emulsification can negatively influence the press performance as well as the curing, the adhesion behavior and the mechanical resistances of the printed inks. Furthermore, low energy inks and LED UV inks usually are enriched with photoinitiators and present a quite different water/ink balance than standard UV inks.

AQUA LED is an alcohol-reduced fountain additive that significantly improves the printability, ensures high stability as well as excellent dot sharpness. It lowers water surface tension and stabilizes water pH between 4.7 and 5.5. AQUA LED received the Nordic Swan Ecolabel, which guarantees that the product meets strict environmental criteria.

So, improve your printing results with low energy and LED inks by using the fountain solution AQUA LED. You will be delighted.

