



# 2010

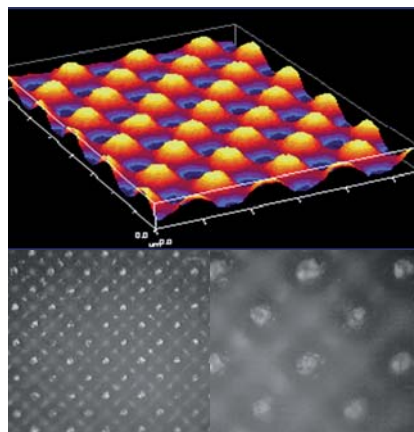
*We wish all our readers a happy and prosperous New Year. We have taken the New Year as an opportunity to adapt the appearance of our newsletter to Siegwerk's modern corporate image. We hope you will like the newly designed «label».*

## An interesting innovation in UV flexo opaque white

If screenprint opaque white is printed with a combination machine, it can only be used at reduced production speeds.

**Process: UV flexoprint**  
**SICURA FLEX WHITE**  
**Product number: 81-010220-2**

With its brand-new SICURA FLEX WHITE, Siegwerk has succeeded in launching an alternative to screenprint opaque white. **Its main benefit is the ability to print at normal UV flexographic printing speeds.** Printing with this new flexographic white requires, however, a **special ART anilox roller**, developed by the renowned manufac-



turer PRAXAIR Surface Technologies (Europe) S.A. Geneva ([www.praxair.com](http://www.praxair.com)). SICURA FLEX WHITE is characterised by its **outstanding covering power** and lends itself well to overprinting with other inks. You can now print the white for «No Label Look» labels on your flexoprint machine without any performance compromises.

### ART anilox roller

Anilox Reverse Technology (ART) is a new laser technology from PRAXAIR for the creation of an unusual cell structure. The raised surfaces between the cells are elongated and also smoothed. The doctor blade glides gently across this raised surface, resulting in an almost totally closed ink film that forms an optimum gradient after transfer to the substrate and permits the maximum possible quantity of homogeneous ink to be transferred.

## The ideal offset series for sleeves, IML and food labels

**Process: UV offset**  
**SICURA PLAST LM**  
**Application: sleeves, IML, labels**

**Lowest possible potential for migration, barely perceptible odour and very good adhesion to plastic substrates** – the outstanding features of this series which has thoroughly proved its worth in the two years since its launch. Thanks to the use of the latest generation of photo-



initiators and binding agents, the series is ideally suited for **applications in the foodstuffs sector.** The inks are very easy to process, do not build up and cure well. Their good adhesion on non-absorbent materials renders them extremely suitable for sleeves and in-mould labels as well as for labels in the foodstuffs sector in general. Intensive pigmentation, minimal dot gain, high durability, attractive gloss and good overprintability with varnishes of the SICURA OPV LM range are other positive properties of this series.

## New UV laminating adhesive for food packaging

**Process:** UV flexoprint

**Application:** food labels

**Product number:** 85-600398-3

The majority of UV laminating adhesives in the label area are unsuitable for food packaging on account of their tendency to migrate.

Siegwerk, in close cooperation with the German company Schäfer-Etiketten GmbH & Co. KG, has succeeded in developing a UV laminating adhesive for foodstuffs labels that meets the requirements for low migration. It is formulated **exclusively with polymeric photoinitiators** that are virtually migration-free. The new laminating adhesive is highly reactive, flows well and has good composite values.

### Experience Report

## Migration-optimised laminating adhesive for Schäfer-Etiketten



**Michael Leipnitz (Siegwerk Product Manager) talked to Mr. J. Jachmann (Production Manager, left) and Mr. K. Schmid (Sales Manager, right) at Schäfer-Etiketten GmbH & Co. KG in Wolfschlugen/Germany.**

### What was it like to work with Siegwerk?

Jachmann: Once we had clarified the requirements for a UV laminating adhesive and carried out a few trials, we obtained good results, both in terms of adhesion and low migration. We can say that with Siegwerk we have a highly capable partner who supplies us «Low Migration» ink and varnish systems for UV web offset, such as SICURA PLAST LM, SICURA LM 100 and LM 250, and now with migration-optimised laminating adhesive.

### For what applications do you use the new laminating adhesive?

Jachmann: We produce self-adhesive labels for one of the largest German fruit yoghurt manufacturers. The 85-600398-3 laminating adhesive is applied to the web film printed with SICURA PLAST LM series, becomes over-laminated with a PP film and gets cured through the laminating film. The composite values are good and adequate.

### How do your customers respond when you offer them a migration-optimised composite label?

Schmid: The major food manufacturers and discounters are unwilling to take any risks, so they require us to undertake migration analyses. Once the SICURA PLAST LM series had proven itself and was in great demand with our major customers, the development of low-migration composites was the next step. With the new laminating adhesive, we are well-placed to respond to customer requirements of this type and we are experiencing a surge of interest amongst other customers – including those outside the foodstuffs sector. We see it as a shining example of good teamwork to the mutual benefit of both parties.

## Intensely-coloured, lightfast flexo yellow

**Process:** UV flexoprint  
**SICURA 39-8**

**Product number:** 81-300455-3



Your customers are anxious to avoid the attractive yellow shades on the product labels losing their colour intensity if exposed to sunlight for an extended period.

Siegwerk has developed a new lightfast yellow based on the tried and tested SICURA 39-8 series. It is intensely coloured, flows well and possesses excellent reactivity.

The light resistance factor (as per DIN 53952) is rated as 6 (= very good).

### HSE Health Safety Environment

## Migration tests required

It is generally well-known that **only «Low Migration» ink systems are permissible for food packaging produced with UV printing**, that is to say, only inks and varnishes with the lowest possible susceptibility to migration may be employed. Part of the printer's and packer's legal duty of care is to ensure that the migration limits are met.

Siegwerk's «Low Migration» ink systems are designed in such a way that these limit values can be complied with for standard market applications. However, since the material combinations and processes vary greatly in printing companies, the printer/packer is required to conduct a validation of the printed packaging including contents in its finished condition. Here we strongly recommend the **appointment of analysis institutes that are already familiar with migrating materials** (e.g. the analysis institute Kuhlmann GmbH in Ludwigshafen/Germany). Contact your Siegwerk application technician and ask for our list of recommended analysis institutes.