



drupa 2008
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Hall 04 · E49



Process: UV flexographic printing
Product: Labels

The Ideal UV Flexographic Printing Series

Series: SICURA FLEX 39-8

Based on the successful SICURA FLEX 39-6 series, which was ideally matched for the products of narrow web machines, this new series is a significant advancement in technology. Thanks to low viscosity and systematic enhancements, the new 39-8 series is even better suited for **plastic labels and for printing on paper and thermal paper**.

Any undesirable absorption of ink by the paper is averted.

The 39-8 series inks are **intensely coloured due to their exceptional pigment loadings**. They exhibit excellent adhesion and

print extremely well. Moreover, they are additive-free and offer an outstanding price/performance ratio. This series may be used in combination with UV screenprint and UV offset without difficulty, and can be coated with lacquer. The series runs at high production speeds to shorten printer's cycle times.

To enable customers to easily upgrade from series 39-6 to series 39-8 without any problems at a later date and to deplete any existing stocks, care has been taken to ensure that the old and new series are compatible. ◆

Process: UV screenprint, UV flexographic printing
Product: Coded labels

White for Laser Coding

Product name: 78-6 White laser-sensitive
Product No.: 81-010167-5



This **laser-sensitive white** contains special pigments that turn black instantly if a laser beam irradiates them. It prints just like any ordinary white and has outstanding adhesion to both plastics and paper. As a general rule, it is only to be printed where coding or the date will subsequently be applied. If need be, the white can also be coated with a protective lacquer without detracting from the printing ink's laser sensitivity. ◆

Process: UV sheet-fed offset
Product: Credit cards, flower stickers and labels

Special UV Inks for a New Machine Concept

Series: SICURA Card 110N/WA

Very recently, **rollerless short inking units (so-called anilox units)** have gained a foothold in the UV sheet offset market, as is the case with the **KBA-Metronic Genius 52UV**, for example. This machine works with UV waterless technology and special UV waterless inks from Siegwirk. The SICURA Card 110N/WA series for waterless UV sheet offset enables a wide range of **non-absorbent**



substrates as well as plastic films such as **PVC, PE, PP, ABS**, etc. to be printed and processed into credit cards, flower stickers and labels.

The SICURA Card 110N/WA series is also especially well suited for printing plastic cards that are to undergo additional processing, such as UV lacquering or film lamination. These inks have excellent **dot sharpness, temperature stability and absence of shading**, even with temperature-controlled colouring via the anilox unit, as is the case with the KBA-Metronic Genius 52UV.

In addition to the process colours, the standard PANTONE® colour spectrum is available. Please consult your Siegwirk applications technician for additional information. ◆

Test Report: SICURA PLAST SP for Sleeves

The renowned label and packaging manufacturer Tadbik Pack Ltd. has tested our new SICURA PLAST SP UV



Roland Ingendoh

offset series under production conditions and is impressed. The print machine operated flawlessly at 250 m/min.

«The Tadbik factory produces self-adhesive labels, sleeves

and in-mould labels in large quantities. Inks from the new SICURA PLAST SP UV offset series were used on a **Drent-Goebel machine** to produce a wide range of sleeves. The average **printing speed reached the 250 m/min mark** over much of the production, and moreover, with exceptional drying.



The inks in the series adhere extremely well to PVC, PET und BOPP. A combination with Siegwerk's solvent-based flexographic or roto-gravure opaque white can be used with no special treatment. The printed sleeves may be shrunk by up to 60 % – even more with low ink coverage. The 4-colour set and PANTONE® basic colours are available.»

Roland Ingendoh, Technology Manager Labels

Health Safety Environment

Under what conditions may «conventional» UV inks also be used in the foodstuffs sector?

Standard UV inks and UV lacquers may only be used for labels and sleeves in the foodstuffs sector under precisely defined conditions.

For sensitive applications, such as packaging and labels in the food sector, there is a wide range of UV inks and lacquers **formulated to provide especially low migration potential.**

Because, by far, the widest area of application for UV inks and lacquers is in the «non-food» area, most printers work with «**conventional» UV inks.** These are suitable for a wide range of applications, but are not formulated for especially low migration potential. They may only be considered for packaging and labels in the foodstuffs sector if the manufacturing process and nature of the packaging prevent any migration.

In addition, **the two conditions below must be totally satisfied:**

1. The material layer separating the printed and cured ink layer from the foodstuff must provide a **functional barrier**, thereby preventing migration through the substrate.
2. The printed or lacquered side of the label must never come in contact with the side of the material that is ultimately in contact with the foodstuff. All possibilities for **set-off must definitively be excluded** (no set-off on the roller, no set-off when nesting). The prevailing foodstuffs law requires the printer and/or the packer to carry out the necessary checks.

In cases of doubt as to whether the above-named conditions are properly fulfilled, migration tests must be conducted. Your Siegwerk application technician will be able to advise you on this matter.

Process: UV screenprint
Product: Labels

High-Viscosity Texture-Finish Lacquer for Tactile Lettering and Symbols

Product No.: 89-601906-4
Series: SICURA Screen 78-3

This new texture-finish lacquer is ideal for the production of transparent labels with **tactile symbols and lettering.** The lacquer cures with a relief height of **> 250 µm.** It can be applied using a Gallus Screeny BZ or a Stork Rotamesh 75/40 screen with 200 µm stencil coating.

Imprinting of folding boxes with tactile instructions for the visually impaired is no longer necessary. A stuck-on label with the tactile markings is much more cost effective. The label's transparency means that the text below on the surface of the box remains legible.



This texture-finish lacquer is, of course, also suitable for relief-type, high-gloss refinements – for example on wine labels. ♦