



Waterless low-migration UV offset print

Process: waterless UV offset print
Sicura PLAST LM WL

Siegwerk's ink specialists have succeeded in developing a new, low-migration series for UV waterless print based on the Sicura PLAST LM series. The new series retains the many positive properties of the widely appreciated 41-WL series, i.e. good adhesion on non-absorbent substrates and outstanding flow characteristics. **Sicura PLAST LM WL has the same pigmentation as the 41-WL series**, so that existing formulations

remain applicable. Thanks to the use of the latest photoinitiators and bonding agents, the new series exhibits **extremely low migration potential and may be used for labels in the food area**. The inks are exceptionally low in odour, cure well and boast an attractive sheen.

The new series also lends itself very well to combination printing for applications in the non-food area, particularly in association with UV screenprint inks.



Excellent adhesion on plastics

Low-odour, highly flexible and with outstanding adhesion – a series predestined for hard-to-print substrates.

Process: UV flexoprint
Application: labels, sleeves, tube laminate
Sicura FLEX 39-3

The series allows high printing speeds and has already proved its worth on the market. Thanks to their excellent adhesion on plastics and the flexibility of the ink film, the inks lend themselves **extremely well to shrinking**. Highly colour-fast inks are available for special sleeves applications; they are suitable for steam shrinking and are not prone to bleeding.



HSE Health Safety Environment

Be sure to follow the regulations for food packaging!

UV inks are becoming ever more popular for printing packaging and labels. **In the food area**, however, legal regulations have to be observed which are aimed at preventing the migration of undesirable substances from the packaging or ink into the food.

Siegwerk has prepared a guide for packagers and printers of food packagings entitled **«Food Packaging Safety»**, which can be downloaded from www.siegwerk.com/productsafety (3.8 MB). The brochure explains, in easily understandable terms, the mechanisms by which migration occurs. There are the permissible threshold values, the safe use of low migration inks, the categories with increased risk, test methods and validation recommendations as well as the responsibilities. In addition, the guide holds a wealth of practical tips.

Visit our website or contact your Siegwerk application technician.

Experience Report

Wide range of applications for Sicura FLEX 39-8 at IPE Innovaciones S.L., Spain

IPE, a company based in Terrasse, north of Barcelona, ranks among the leading producers of labels, sleeves and materials for packaging in Spain. Vice Director Francesc Egea explains why he particularly values the UV flexoprint series 39-8.



Francesc Egea

«Our customers are demanding labels for diverse markets, such as health and body care, food packaging or liquors. For them we print a considerable range of substrates, such as PP, PE, PVC and PET. Consequently we need inks that offer versatility and allow high printing quality at high machine speed. Thanks to its outstanding adhesion, the Sicura FLEX 39-8 series can be printed on all of these plastics and it also enables us to achieve top quality even at high printing speed. The inks exhibit optimum on-press stability and consistent colour strength.

With the highly concentrated Sicura FLEX 39-8 HC process set we are able to use anilox rollers with high line count. This reduces ink consumption and improves both the resolution and the end result. Working with basic colours, colorimetric instruments and the PANTONE® Matching System enables us to reduce preparation time, to step up efficiency in the production area, to improve the colour management and the control of the ink stocks.»

Well Worth Knowing

Build-up of deposits on the rubber blanket

These are the most common causes of unwanted deposits on the rubber blanket:

- Constituents of the paper coating adhere to the rubber blanket due to inappropriate composition of the fountain solution.
- Paper fibres, edge-trimming dust residues or primer constituents when using plastic films may cause problems.
- Fillers and waxes in the ink or components of insufficiently cured UV inks can also lead to deposits.
- Unsuitable rubber blanket quality as well as incorrect bearer pressure between plate and blanket cylinder or between counter-pressure cylinder and blanket cylinder may also cause deposits to build-up.



UV varnishes for thermal transfer print

Process: UV letterpress, UV flexoprint

Sicura gloss varnish for UV letterpress 75-600243-2 (ex. 41-2-0900)

Sicura gloss varnish for UV flexoprint 85-600340-5 (ex. 39-8-1004)

Label customers from a wide range of industries nowadays demand that their labels can be overprinted with markings.

Among the processes used for this are **thermal transfer print** systems (TT) and a variety of TT tapes which place special requirements on the UV varnish. Siegwerk offers two UV varnishes which – alongside good curing, **attractive gloss**, scratch resistance – also provide outstanding **functionality with dif-**

ferent wax, combination and resin tapes. If you would like to learn more about these products, please contact your Siegwerk application technician.

Thermal transfer print The print head consists of a large number of tiny pins which can be individually heated under computer control to create the desired print image. A thermal transfer film is introduced between the print head and the substrate, and its coating is transferred to the substrate via the heated pins.

New varnish for thermal labels in the food area

Process: UV flexoprint

39-9P varnish 0099

Product number: 85-600382-7

The newly developed **low-migration varnish** is based on the tried and tested 38-0-0099 varnish, and **only polymeric photoinitiators** have been used in the formulation. This makes the varnish suitable for applications in the food area. **High reactivity, attractive gloss and particular suitability for thermal papers** are other advantages. The varnish remains on the surface of the relatively strongly absorbent thermal paper and prevents soiling of the thermal printing strip in the processing plant.