

## SICURA PLAST NUTRITEC successful in food packaging applications

**Process:** UV offset

**Application:** Food packaging, IML, sleeves

**Series:** SICURA PLAST NUTRITEC

Food compliance confirmed with numerous migration analyses. Barely perceptible odour and very good adhesion on a wide range of synthetic substrates.

Slightly more than one year on the market, these low migration UV offset inks have fully met expectations. As well as excellent printability on dedicated UV presses, the inks are user-friendly and show first-rate reactivity. Their outstanding adhesion on non-absorbent materials makes them



a valued UV offset series for sleeves and in-mould labels. High pigmentation, low dot gain and good overprintability with low migration varnishes from the SICURA OPV series are further advantageous properties of this series.

### Field Report

## FP-Pack in France prints with Tempo NUTRIPACK 2 at 20.000 sheets per hour

«As far as I know, we are the first company to print continuously at a speed of 20,000 sheets per hour», says Philippe Pouponneau, owner of FP-Pack in Appoigny/Yonne.

His family-run company produces a wide range of cardboard packaging for the food industry. It counts among its clients the most famous brands of French and international food industry. Since the foundation of the company, Florence and Philippe Pouponneau have established a responsible business and environmentally friendly production. Since several years, for example, the company is printing alcohol-free and exclusively

with low migration, vegetable-based inks from renewable sources which are compliant with the Nestlé standard – the most stringent standard in the food-stuffs industry. In addition, the company also uses the water-based varnishes FIX RAPID from Siegwark which also meet



Florence and Philippe Pouponneau are proud of their most recent investment.

## INKday 2014 in France

11<sup>th</sup> June 2014 in Paris

This French event is part of Siegwark's successful INKday series. It is an ideal forum for meeting up with experts, exchanging opinions and discovering new solutions. This event will be mainly **concentrating on environmentally friendly and more cost-effective solutions**. It will be a day for you with specific group sessions and seminars about colorimetry, new packaging solutions, etc. So don't miss it.

## A new Center of Excellence in Loeches/Madrid

In order to develop new inks for conventional offset by using renewable raw materials, Siegwark has built a new lab in Loeches (Spain). Head of the new lab is Carmen Gazol Burgos. She is proud to use the most modern facilities for her job. Quality assurance and security in application will be her main focus.



Carmen  
Gazol Burgos

the requirements of this sector. In its quest for continuous improvement, the company FP-Pack chose to use the Tempo NUTRIPACK 2 series, and Mr. Pouponneau adds: «The NUTRIPACK 2 series provides outstanding results both in terms of technical properties, its ease of use, and machine stability. We also appreciate the service and expert advice we receive from Siegwark». [www.fppack.fr](http://www.fppack.fr)

## GMP in Siegwerk Blending Centres



Not only are process inks, basic shades and varnishes in the Centers of Excellence produced in accordance with the principles of Good Manufacturing Practice (GMP), but also spot colours in the «Blending Centers» of Siegwerk (like Backnang in Germany and Mitry Mory in France). When producing spot colours for local customers, **the main principles of GMP are to ensure the compliance of low migration systems and to eliminate any risk of contamination.**

GMP procedure already starts at the planning stage where job cards of LM spot colours are issued with clear instructions to the production staff. Then, during the blending and packaging steps, a special focus is put on:

- the cleaning procedures, i.e. rinsing with controlled solvent and wiping of the machine and all tools used in the process (knives, spatulas, pans, mixers, hoses),
- the traceability of ingredients used in the recipe (systematic recording of batch number of every ingredient).

Siegwerk has developed advanced analytical methods to detect and quantify the smallest traces of impurities, which may be present in any batch.

## Gold bronze reclassified as hazardous

As part of the REACH registration, toxicity and ecotoxicity tests were conducted on powdered copper, these resulting in a reclassification as hazardous to the environment and harmful to health if swallowed. This has led to changes regarding the classification of Siegwerk products containing gold bronze.



Alloys such as gold bronze pigments derived from copper and zinc are treated in the CLP Ordinance (Classification/Labeling/Packaging) as a «mixture» of individual substances. Mixtures containing copper, e.g. gold bronzes, are **now regarded as harmful if swallowed and hazardous to the environment.** The danger to the environment therefore applies to practically all metallic inks based on raw materials containing copper or zinc; these must be reclassified as hazardous goods of Class 9 in accordance with transport legislation. An information leaflet is currently being prepared by the European Printing Ink Association EuPIA. Please consult your Siegwerk application technician if you require additional information.

## Health Safety Environment

### The ban of BPA – a real issue or a step towards more food safety?

**In France, Bisphenol A (BPA) is banned from printing inks and varnishes on food packaging material which does not have an appropriate barrier to migration.**

BPA is a chemical compound of great importance, because it is mainly used for the synthesis of polymer plastics. However, several studies in recent years have shown that BPA may be harmful in food. In 2008, Canada has forbidden the manufacturing of milk bottles for babies and soothers from BPA-containing plastic. In Europe, the European Food Safety

Authority (EFSA) has just confirmed that BPA can adversely affect some organs and recommends that the tolerable daily intake should be lowered.

As the first European country, France has adopted at the end of 2012 a law which generally **prohibits the use of packaging materials in the food industry from 1<sup>st</sup> January 2015, if these materials are printed with BPA-containing inks or varnishes.** This means that inks and varnishes formulated with raw materials which may contain a certain amount of BPA are affected by the new

law. Not affected are packaging materials which are protected by an appropriate barrier to migration towards the foodstuffs, such as aluminium or glass, so that «set-off» on to the food contact side cannot occur. The French authority DGCCRF will define the testing conditions to confirm the compliance of a food contact material. As these tests will be performed on the finished articles, requests concerning analyses on Siegwerk inks are not relevant.

In the manufacture of all products supplied by Siegwerk, BPA is not used as an intentionally added ingredient, however some raw materials based on BPA are used. Proactive as usual, Siegwerk has already launched an examination in order to replace raw materials based on BPA in inks for food packaging. Therefore, Siegwerk will be able to **offer alternative products which should meet the new French law before the 1<sup>st</sup> July 2014.**