

## A new step in the printing of non-absorbent substrates

**Process:** Conventional sheet-fed offset | **Applications:** Packaging  
**Series:** Tempo PLASTOFFSET 2

A complete range of vegetable-oil-based low migration offset inks, dedicated to non-absorbent substrates.

Tempo PLASTOFFSET 2 is appreciated for its **outstanding adhesive properties** to OPP, other plastics, foils, laminated or metallised paper, greaseproof paper, etc. This **cobalt-free series** ensures high speed runability and is particularly easy to use. It features quick film forming, good stability and excellent water/ink balance. Suitable for all dampening systems with or without alcohol; no misting even on high-speed (above 10'000 sheets an hour).

It is especially suitable for two main applications:

- IML for food trays or other plastic containers requiring fast setting, no set-off and limited odour emission during the drying.



- beverage labels on metallised paper where colour strength and transparency are called for.

For food trays, which are stacked before filling, the printer must make sure that no disturbing migration occurs. Tempo PLASTOFFSET 2 is the new low migration solution for such applications. The series has successfully passed critical exemplary migration tests done by the Siegwerk laboratory in collaboration with the known independent expert Institut Kuhlmann. Tempo PLASTOFFSET 2 is available as process inks and concentrated bases for mixing.

## New, highly concentrated dark black

**Process:** UV sheet-fed offset  
**Application:** Packaging, commercial  
**Series:** Sicura PLAST LO  
**Product number:** 71-900381-6

Siegwerk ink engineers say it is the strongest black ever.



This outstanding new UV offset black is the perfect choice when you need to print a very intense black on plastic substrates. Compared to the market standards this new black is very highly concentrated, which allows it to achieve a high density value while providing a high level of adhesion, fast curing and very good offset behavior.

Based on the very latest development in black pigments and with the optimal mix of photoinitiators and oligomers, this UV offset black offers an absolutely superb contrast for illustrations and very deep aspects to solid areas.

## Primer with excellent water resistance

**Process:** UV flexo print  
**Applications:** water resistant labels  
**Series:** Sicura FLEX 39-3  
**Product number:** 85-601786-8  
**Hardener:** 71-470074-7

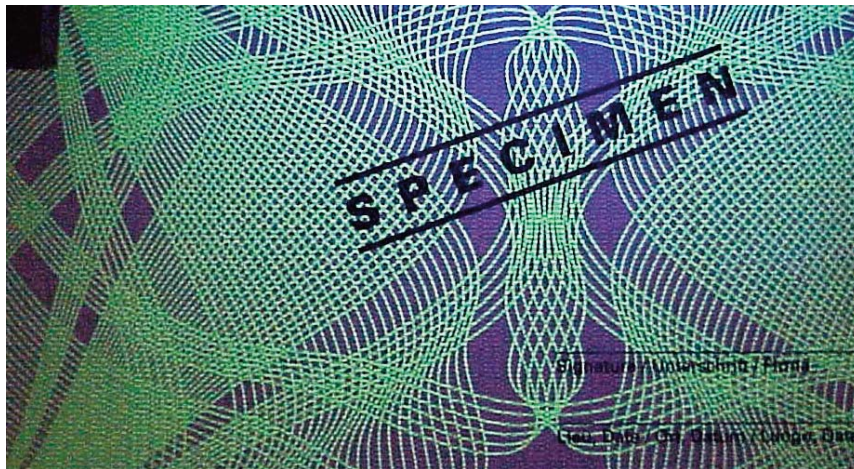
**A primer that sticks to all boxes & tags**

Wet adhesion of UV offset inks and UV varnishes based on acrylated species is often an issue, especially on certain tricky substrates. One example is the polypropylene tag used for plant labels. Since these tags are placed in the plant pot, they are exposed to drastic conditions of humidity. If adhesion of the UV systems is not OK in



wet conditions, the label can be damaged. An exceptional 2-component primer was developed for this application in order to ensure the wet & dry adhesion of UV inks and varnishes. **Thanks to this system high image definition provided by the UV offset or UV flexo quality can be obtained together with high wet adhesion provided by the primer.** Good news for gardeners!

## New fluorescent colours in UV offset



**Process:** UV sheet-fed offset, UV web offset  
**Application:** Commercial, advertising  
**Series:** Sicura FLUO

The new series can be applied in sheet-fed or web offset on paper or cardboard.

This series of fluorescent inks has been developed to offer a very bright and intense fluorescent signal. Because in offset, a thin ink film is printed; standard fluorescent inks on the market so far have been offering only a low fluorescent effect. With the new

Siegwerk series, the challenge of **maximising the content of fluorescent pigment whilst maintaining the good lithographic behaviour** has been achieved. The series is generally used by designers to catch the consumer's attention in commercial applications for advertising purposes.

**Fluorescence** is the emission of visible light by a substance that has absorbed radiation from an invisible energy source, e.g. UV light. Fluorescent objects then appear to be brighter than objects of the same shade.

### Experience Report

## Tempo NUTRIPACK – the sustainable solution for Europoligrafico

The company **Europoligrafico** ([www.europoligrafico.it](http://www.europoligrafico.it)) is one of the top three packaging printers and converters in Italy. They focus on printing food packaging (ca. 80% of their revenue) as well as other products with a low migration value. For the printing process, only vegetable based colours with low odour and low migration

qualities are used as sustainability is the key for the future. For the packaging production Europoligrafico uses the **sheet-fed offset ink Tempo NUTRIPACK**. These colours are characterized by their composition of renewable, vegetable-oil-based raw materials, their printability and their high quality standard.

## PSO requiring higher Quality Standard for Process Inks

**Process Standard Offset is a standardised procedure for printing products.**

It refers mainly to the ISO 12647-2:2004. This norm specifies the process parameters and values that should be applied in order to guarantee good quality prints.

Focusing on print production, PSO requires not only producing a sheet that complies with the ISO 12647 tolerances, but also having a print run stability that is within the acceptable tolerance range. The known QC stage no longer fulfils the requirements of PSO in the print shops. PSO requires even more! Dot gain and ink superposition properties are not only driven by the printing machine set but also by the ink formulation and characteristics. It has now become mandatory that all parameters are very consistent from batch to batch in order to allow printers to be in the acceptance interval of PSO.

SIEGWERK works with its suppliers to receive consistent high quality raw materials. The company has also upgraded its manufacturing processes and met new quality control methods to ensure both the most stable production conditions and to ensure that each batch of the PSO certified series, such as Tempo ALLEGRO, is released with the highest quality standard available on the market.

### Interpack 2011

On 12 to 18 May 2011 we will attend the exhibition Interpack in Düsseldorf, Germany. Visit us in hall 7a, booth B11. We look forward to seeing you!