



Process: Conventional Sheet-fed Offset
Applications: Commercial, Packaging

Tempo PERFECT – Outstanding Results in PSO



Tempo PERFECT

This all-purpose ink series for commercial and packaging applications is approved and **permits ultra-fast printing of premium quality** (around 18,000 sheets per hour). It ensures sustainability because it is a 100% vegetable-based composition without any mineral oil compound and it is fully compatible

with Siegwerk's alcohol-free fountain solutions AQUAMAX series.

One of its salient advantages is its **compliance with the printing colour standard ISO 12647-2 and with Process Standard Offset (PSO)**. The French printers association Imprifrance recently ran a test with conventional offset inks from different main ink manufacturers in order to check compliance with this ISO colour standard: Tempo PERFECT finished first, mainly due to its **minor dot gain**, and its Delta E / Delta H values, widely better than usual admitted values!

In addition, the Tempo PERFECT inks comprise



Information

Please Make Use of the Technical Data Sheets

With a view to better serve the printer and the safety mandate, Siegwerk publishes all the Technical Data Sheets of SF UV series on its website **without login and password**. These data sheets are always up-to-date and comply with the legal requirements.

Together with the safety information, the data sheets include specifications about applications, suitable substrates, properties and qualities of the inks and varnishes. Furthermore the numbers of reference and recommended additives are indicated.

> www.siegwerk.com > Customer Segments > Sheetfed & UV > Service > Technical Data Sheets.

elevated concentration, quick setting, high gloss and good rub resistance. They are especially suitable for face and reverse printing on paper. If you aren't a regular user yet, a trial is recommended. ◆



Good to Know

Alcohol-free Dampening

Isopropanol (IPA), an alcoholic component, for a long time has been one of the most popular additives in conventional and UV offset. IPA decreases the surface tension of water and increases the viscosity of the fountain solution. Its evaporation creates a cooling effect on the plate, helping to stabilise the temperature. For many years, the printing industry has tried to reduce or eliminate the use of IPA.

Environmental regulations and ecological awareness require us to substitute alcoholic components in dampening systems. That's why new solutions have been selected, showing even more improvements like reduced ink consumption and better dot gain.

In order to print alcohol-free or with reduced alcohol levels, the Siegwerk technology team – after extensive screening – has selected the **best additives compatible with Tempo and SICURA series**. Please contact your Siegwerk application technician for more information.

Process: Conventional Sheet-fed Offset
Applications: Commercial and difficult substrates

Tempo ROCK for Meticulous Presentations

Tempo ROCK

If you need a special sheet-fed offset ink with high scratch and rub resistance, high speed runnability for **jobs known to be sensitive to aggressive further processing**, this new Siegwerk series will be the right choice. Tempo ROCK is a high quality 100 % vegetable-based series, with high colour intensity, high gloss level and very good dot sharpness, that shows good stability and water-ink balance. It is PSO certified, suitable for short runs and quick work and turn. These inks are specifically designed and **dedicated for matt coated papers**. ◆



Process: UV Web Offset, UV Sheet-fed Offset
Applications: Commercial, Packaging

High Productivity in UV with Litho 900

SICURA Litho 900

This new series was especially developed for UV continuous printing and UV sheet-fed printing. Books, magazines, leaflets, mailings, forms, advertising, etc. are printed with an **average press speed of up to 400 m/min**. On sheet-fed presses, folding boxes for packaging of domestic and industrial products are printed.

SICURA Litho 900 features outstanding printability, high colour strength, fast curing and low misting. Moreover this series is also suitable for laser postprinting. The series is compatible with all types of dampening systems using either alcohol minimiser or conventional fountain solutions. The inks remain stable on the rollers and show an exceptional ink-water balance. They fulfil the ISO 2846-1 colour standard. ◆



Process: UV Sheet-fed Offset, UV Web Offset
Applications: Primary Food Packaging, IML, Sleeves, Labels

Low Migration UV Offset for Plastics

SICURA PLAST LM

Thanks to the use of the latest technology in photoinitiators and resins, the SICURA PLAST LM series inks stand out for their **extremely low tendency to migration**. Moreover, they have extremely low odour properties. This series is free of low-molecular-weight photoinitiators, like benzophenone and its derivatives.

These inks are very easy to process, do not build up and they cure well. Their **outstanding adhesion to plastics** renders them especially suitable **for non-absorbent substrates like in-mould labels (IML)**, sleeves, metalized polyester, OPP, PVC, etc., as well as for labels in the food sector in general. Intensive pigmentation, minimal dot gain and high overprint varnish compatibility are other advantages of this new series. ◆



News from Russia

On the occasion of the following trade fairs, Siegwirk is organising two Packaging Seminars for printers:

At ROSUPAK in Moscow, 15th – 19th June 2009,
At POLYGRAPHINTER in Moscow, 28th Oct. – 3rd Nov. 2009. Topic: Food packaging solutions in offset printing.



Technical Glossary

The new PANTONE® Goe™ System

Like the PANTONE® Matching System, the PANTONE® Goe™ System is an internationally accepted standard for colour communication developed by Pantone. The Goe System wants to complement the PANTONE Matching System (PMS), not to completely replace it.

The Goe System provides 2,058 new colours,

adhesive-backed chips, innovative software and numerous other features for the design and print community. No special effect colours like metallic or fluorescent colours are included in the Goe System. To avoid confusion, the Goe System uses a new three-part numbering separated by hyphens to locate the colour within the publication.

Compared to the PMS, the Goe shades are resistant to varnishing and lamination, and so avoid bleeding or colour degradation. The colour strength of Goe shades is much higher,



and the number of bases is only 10 compared to the PMS with 14 bases. Pantone gives no cross-reference of the numbers in the two systems. The numbers are different and the inks are mixed from different bases; so even colours that appear similar may differ slightly.



Useful Tips

Shake or Stir?

James Bond, as almost of us know, always prefers his Martini shaken, not stirred. Inks on the other hand, have nothing in common with Martini and 007. They should be stirred and not just shaken. This is because varnishes and printing inks often contain components that sink to the bottom or float to the surface upon storage. For this reason, we recommend that **inks and varnishes are always stirred before use**.