



Process: UV sheet-fed offset
Applications: Packaging, commercial

SICURA PLAST SP – a big success

SICURA PLAST SP



This versatile ink series, also highly suitable for non-absorbent substrates, is a very recent development. It fully satisfies all demands of offset printers with regard to adhesion, flow characteristics and printing properties.

SICURA PLAST SP exhibits excellent running properties, enabling it to be **used on both non-absorbent substrates and paper/board**. The printability level is similar to that of conventional inks (over 15,000 sheets per hour).

The series features high colour strength, trouble-free curing, and a very good water-ink balance. These UV offset inks have a low and sequenced tack, which permits wet on wet printing. They do not build up and they demonstrate good flow properties along with minimal dot gain. Additionally they are benzophenone-free.

Because of their transparency, the inks are very popular for printing on metallised paper, board or polyester (e.g. luxury packaging for spirits, perfumes or cosmetics). ◆

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UV Primer for optimum adhesion to plastics

Product number: 75-600400-8

Adhesion of UV inks to synthetic substrates is not always successful. Siegwerk's excellent **UV offset primer** is a proven primer that guarantees **perfect adhesion of UV ink systems** that are subsequently applied. Compared to a standard flexo or dry offset UV primer, this product allows the printer to print on difficult substrates while keeping the benefit of the substrate's aspect in the non printed area (metallic, hologram, transparent).

Additionally to good adhesion on a wide range of substrates, good lithographic behaviour is also an important property requirement. This UV offset primer gives optimal results in ink-water balance. ◆

Process: Conventional sheet-fed offset
Applications: Food packaging

Tempo NUTRIPACK for Cailler chocolates

Tempo NUTRIPACK

Nestlé's premium quality chocolate is well-known under the Cailler trademark. Now Cailler has just **given its validation to the use of the sheet-fed offset series Tempo NUTRIPACK** for the production of its prestigious cardboard chocolate boxes. This go-ahead is following a stringent campaign of sensorial and migration tests for which every part of the packaging has been carefully analysed with the famous professionalism of the renowned Swiss company.

The Tempo NUTRIPACK concept, based on renewable vegetable-based raw materials, together with the excellent results of the sensorial tests, has been essential in the decision taken by Nestlé.

For your information, Tempo NUTRIPACK is available in process inks, concentrated bases and overprint varnishes. ◆



Process: UV sheet-fed offset
Application: Packaging

Award-winning folded box «Nivea Visage»

SICURA PLAST SP / 3xx770

Admittedly, the folding box didn't receive its award only because of Siegwark's inks but because of a totally novel printing and decoration technology. When one looks at the box on



a shelf in store, a metallic sphere appears to be bulging out of the packaging. The three-dimensional effect seems to be achieved by means of a new laminating technique, comparable to the printing of a hologram. How this is done is still the secret of CD Cartondruck AG, in Obersulm/Germany. The jury responsible for the «German Packaging Award 2009» rated the introduction of the novel 3D-Technology into the domain of folding boxes as inspired, as well as the design, presentation and refinement of the packaging.

Siegwerk is delighted that the company CD Cartondruck has been able to achieve such **great results with the UV series from Siegwark**. The inks show colour strength, outstanding adhesion and excellent processing properties. ◆

Process: Conventional sheet-fed offset
Applications: Commercial

No more mineral oils in oil-based OPV

Tempo Finish

Siegwerk has recently introduced mineral oil free varnishes to complete its Tempo Finish range. Fast drying, they are suitable for both wet-on-dry and wet-on-wet applications with excellent transfer and stability on press. Thanks to their vegetable-based binder, they can even be used on perfecting machines,

allowing both sides of the print to be processed in one step.

If looking for high gloss, superb matt or satin effect without mineral oil derivatives, then contact your Siegwark application technician for additional information and the product numbers concerned. ◆

Process: UV flexo print / UV varnishing unit
Application: Packaging

Two UV flexo varnishes with superior scratch resistance

SICURA FLEX OPV

Product number of matt varnish: 85-600393-4
Product number of glossy varnish: 85-600407-2

With these new UV varnishes for luxury packaging, Siegwark has achieved a significant step forward. Very attractive effects can be obtained by alternating the use of matt and gloss varnishes.

From a technical perspective, UV matt varnishes often possess poor flow in processing. Furthermore inferior **rub and scratch resistance** will reduce its usefulness in overprint

Rub and scratch resistance is verified

by various surface measuring systems which check the micromechanical properties of printed surfaces in accordance with international standards.

varnishes particularly for luxury boxes that are often subjected to mechanical stress during transport.

With the use of the new-generation matting resin, which incorporates special additives instead of mineral fillers, Siegwark has succeeded in **producing a low viscosity matt varnish with good flow characteristics**.

This is due to the matting agent's homogenous particle size. A combination of outstanding mechanical resistance, smooth lay and low gloss is achieved with this new development.

The **High Gloss version** of this UV overprint varnish is achieved by its particular ability to wet the substrate. The varnish 72SI042000, which does not block, demonstrates superior rub and scratch resistance and a high slip level. This new, exceptionally high-quality gloss varnish produces an **even glossy surface**, is very easy to process and **maintains its constant low viscosity** in processing. ◆

HSE

Health Safety Environment

Do you print food packaging?

For many years, Siegwark has been offering **Low Migration ink systems** for migration-sensitive applications. When manufacturing food packaging with UV printing inks, be aware that standard UV curing inks and varnishes can contain photoinitiators and other substances with high migration potential. In line with the GMP Regulation (EC) No. 2023/2006, the printer and the packer/filler **have to ensure that there is no migration of concern** (limit 10 ppb) from the ready-made packaging to the foodstuff.

Unless there is a reliable barrier between the printed layer and the content, **only UV Low Migration inks and varnishes must be used**.

To its customers, Siegwark offers assistance in the form of a PDF document entitled «Selection of Siegwark UV Low Migration Systems» containing a listing of food packaging applications with high migration risk and recommended Low Migration inks. Please contact your Siegwark interlocutor if you would like to receive this PDF information.