



Process: UV offset  
Product: Labels

## Offset Series for Labels Optimised

UV SICURA PLAST SP LABEL

Excellent runnability, outstanding ink/water balance, trouble-free curing and impressive colour intensity have always been the strengths of the SICURA PLAST SP series. In order to optimise the printability even more, the **4770 series pigmentation**, which is highly regarded by many customers, has **been integrated into the vehicle system used for PLAST SP LABEL**. The result is a tho-



roughly convincing, highly colour-intensive pigmented series for UV label printing.

We highly recommend that all clients who have up to now bought the 4770 series conduct a trial with UV SICURA PLAST SP LABEL. You will be very much impressed with the results! Your existing matching formulations may be retained unchanged. ◆

Process: UV flexoprint  
Product: Metallic labels

## Cold Foil Varnish for UV Flexoprint

39-3 Laminating adhesive Cold Foil  
Product number: 85-600358-7

In LABEL No. 59 (August 2008), we gave an in-depth introduction to the Cold Foil varnish for use with UV offset. In the meantime, Siegwerk has revised and significantly improved its Cold Foil varnish for **UV flexoprint**. In Cold Foil printing, a UV adhesive is printed partially onto the substrate. The metallic foil is applied and pressed firmly to the substrate. UV curing takes place through the metallic foil which bonds the metallisation to the coated areas on the substrate. The foil with the surplus metallisation is pulled off.

### Cold Foil printing offers significant savings compared to hot film embossing.

The greatest benefits are the elimination of the hot embossing station, thus greatly increasing the printing speed as well as shortening set-up times. ◆



## HSE Health Safety Environment

### REACH is Operational

The EU **REACH** directive (Registration, Evaluation and Authorization of Chemicals) came into force on 1 June 2007. It requires all materials produced or imported in quantities of one tonne or more per year to be registered with the European Chemicals Agency (ECHA) in Helsinki. The registration obligation is graduated according to the annual production volume: materials produced in quantities of > 1000 t/year must be registered by 1.12.2010. Materials produced in quantities of > 100 t/year must be registered by 31.5.2013. Materials produced in quantities of > 1 t/year must be registered by 31.5.2018.

4,627 companies have already taken advantage of pre-registration and there are to date a total of **13,883 substances registered with the ECHA in Helsinki.**

The Siegwerk Group has set up a special coordination office for REACH which checks to ensure that all raw materials used by Siegwerk have been registered by the manufacturers in accordance with their duty. If this is not the case, Siegwerk initiates the registration itself. As far as the majority of raw materials is concerned, confirmation of prompt pre-registration has already been received.



## 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.**

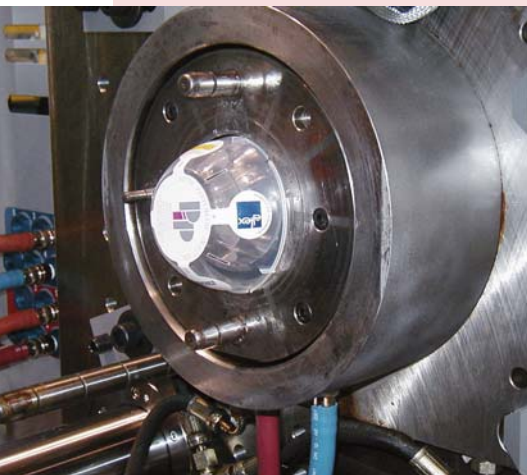


## Good to Know

### In-mould-labelling and Electrostatics

The electrostatic behaviour of inks and varnishes plays an important role for in-mould-labelling (IML).

For insertion in the injection mould, an electrostatic charge is briefly applied to the label so that it maintains its position in the mould. Substrate, **varnish and ink must therefore be able to hold an electric charge and release it as needed.** Not all materials are suitable for this purpose, something you can easily test for yourself.



### Finished injection moulding with integrated label.

For example, if you rub a plastic ruler with a cloth, it will most likely pick up little pieces of paper. With many other materials, this may not necessarily hold true.

The printing inks and varnishes recommended by Siegwirk for IML have proven themselves in practice and cause no electrostatic problems whatsoever.

Process: UV flexoprint  
Product: Labels

## New Release Varnish for Self-adhesive Materials

UV SICURA FLEX 39-8-0005  
Product number: 85-600335-3



This new release varnish is notable for its outstanding **release effect**, despite being formulated with free-**radical initiators**.

To date, it has only been possible to achieve a comparably good release effect using cationic UV systems.

Radical-based varnishes have a significant advantage in that they cure instantly, **enabling higher production speeds**, irrespective of the air humidity in the machine room which can sometimes lead to difficulties with the cationic curing process.

In addition to the exemplary release effect and higher production speeds, the new varnish

guarantees very good compatibility with all common plastic **substrates** as well as on moderately absorbent materials. The good release effect remains undiminished even after extended storage of the finished products (1 year or more). ◆

**Release effect** – thanks to the smooth surface of the release varnish as well as the additives (e.g. silicone) contained in the formulation, the applied self-adhesive material comes off very easily.

Process: UV flexoprint  
Product: Sleeves

## New: Matte Varnish for Sleeve Exteriors

Product number: 85-600361-1

It is well known that sleeves are produced using reverse printing. And to lend an attractive touch to the outside, Siegwirk has developed a special matte varnish. This product enables the exterior to be given a **special feel** or to draw additional customer attention by alternating **matte and gloss effects**.

Here it is important that the varnish survives the shrink process undamaged and is scratch resistant. Based on 39-3 technology, this matte varnish guarantees great flexibility and good adhesion. ◆