

UPDATE

News for offset printers · BU Sheetfed · EMEA Edition



Two Gloss Varnishes Low NRGY

Process: UV flexo or UV offset
Application: Packaging and commercial printing
Series: SICURA Low NRGY

Within the framework of the low energy development and further to the Low NRGY series already launched and highly appreciated by the users, Siegwerk has developed a duo of high gloss varnishes for flexo and offset litho applications.

SICURA Low NRGY flexo OPV, product number 85-600888-3: This varnish presents not only a high gloss level but a high reactivity and a very good rub resistance. It can

be used for double-sided applications on paper and, due to its good slip level, it is perfectly suited to packaging applications on board.

SICURA Low NRGY offset OPV, product number 75-600885-0:

The reactivity of this varnish completely fulfils the low energy dryer requirements. No misting even at high speed and a good rub resistance are also some other good properties of this product which can be used both in dry and litho offset.

Both varnishes are free of benzophenone, 4-methyl-benzophenone and hydroxybenzophenone.

Welcome...

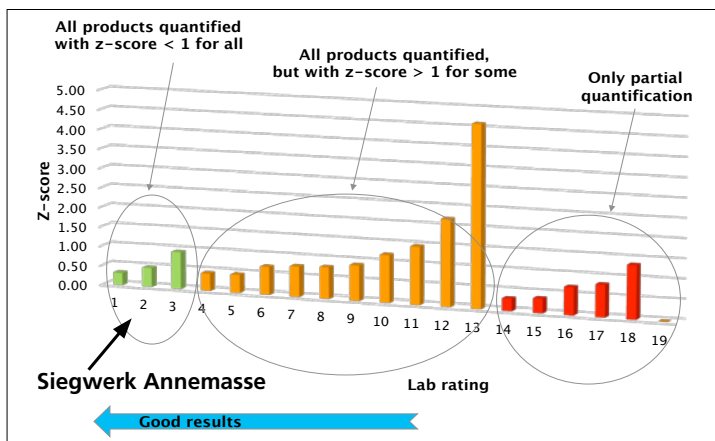


Jennifer Joyce. She is the new head of global product development for Sheetfed and Narrow Web and coordinates the technical cooperation of the Siegwerk Centers of Excellence worldwide. Jennifer Joyce has significant experience in the UV area.

Migration testing: Top score for Siegwerk analytical laboratory

A total of 19 European laboratories of printing ink manufacturers and third-party laboratories participated in the **round-robin test** in the 3rd quarter of this year, organized by the German reference office for food proficiency testing and reference materials (DRRR). Accredited testing laboratories have to submit themselves to such tests at regular intervals. The materials to test this

time were five acrylates of unknown concentration. Only 3 of the 19 participating laboratories achieved the top global score, of which one was **Siegwerk Annemasse** (= 2nd green column from left). As a result of the laboratory rating, Siegwerk can guarantee product safety and quality to its customers.



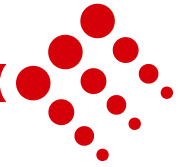
A new, not yellowing Transparent White

Process: UV offset
Application: Packaging
Series: Plast SP
Product number: 71-000291-6

Extra low yellowing, superior adhesion.

Transparent white is playing an important role in UV offset since it is widely used to achieve a desired shade. Large quantities of transparent white are needed in pastel shades for which minimal yellowing behavior is a must.

To minimize the yellowing without compromising the curing properties, Siegwerk experts carried out a real breakthrough. A special combination of ingredients was found and this led to a **very low level of yellowing, and also to an improvement in adhesion.** The new transparent white has already been adopted by key players in luxury packaging applications.



Over 35,000 Visitors at Labelexpo – 14% greater attendance at the Siegwerk booth



It was a Labelexpo of superlatives (29 Sept. to 2 Oct.) with many novelties on show. At the Siegwerk booth, visitors marvelled at the gravity lifters with their «levitating» products and were interested above all in the **wide range of the low migration UV ink series**. «Overall, the Labelexpo was a complete success for us,» reports Rolf Montag, Product Manager Narrow Web. «Siegwerk's booth party held for customers on the first evening of the expo was also highly appreciated.»

Outstanding low migration UV flexographic primer for optimized adherence

Process: UV flexographic printing
Application: Labels, food packaging
Product number: Nutriflex PRIMER E 46 / 85-600675-4

This low migration primer optimizes the adhesion performance of all low migration UV inks.

The primer provides excellent results on PET composite materials, PP, OPP, PE and

top-coated aluminum. It is **suitable for food packaging** (however, a migration analysis must be performed for every new application).

Due to its smooth surface, it can be over-printed without any problems and is easy to process. This primer is a new development, designed to be combined with the usual low migration offset series.

Food compliant water-based Soft Touch Varnish

Process: Flexo
Application: Food packaging, luxury packaging
Product number: 10-606170-8

For several years, Siegwerk has regularly demonstrated its skills in tactile and peach peel effect varnishes while Siegwerk Soft Touch OPV's are used daily on many well-known packaging.

With the development of a food compliant quality destined to the food packaging industry, Siegwerk strengthens its leading position in regulations and food compliance. Without compromising a perfect soft touch effect, this new varnish features good rub resistance and adequate rheological properties for easy use on flexo coating units. Quick drying, non-yellowing and anti-foaming properties are completing the list of the main advantages of the new product.

How to equip a colorimetric lab?

We are often questioned about the best equipment required for a colorimetric lab. The following information lists the necessary equipment for a successful realization of all topics related to color.



Ink formulation & color quality control software

- ✓ Xrite IFS6 version «Printer Pro» (includes CQS6)

Spectrophotometer

- ✓ Xrite – Exact Standard version – 45/0° for all applications except metallized substrates
- ✓ Xrite – Ci6x series – Spherical geometry for specific application: metallized substrates

Scale for recipe weighing

- ✓ Mettler Toledo
Maxi. Range: 3 kg – accuracy 0,1 mg

Analytical scale for grammage control

- ✓ Mettler Toledo
Maxi. Range: 220 g – accuracy 0,01 mg

Proofing machine

- ✓ IGT – C1-5 for conventional & UV offset inks
- ✓ Flexiproof100 UV for flexo UV inks – Erichsen

UV dryer

- ✓ Aktiprint – Technigraf

Hand coater for OPV application

- Erichsen
- ✓ HC0 for UV varnish
- ✓ HC1 for water varnish

Light Booth for visual color control

- BYK Gardner