

UPDATE

News for offset printers · BU Sheetfed · EMEA Edition



Joh. Walch in Germany – seven times better with SICURA Litho LED



Ingo Klotz (plant manager of Joh. Walch, right) and Marcus Fuggmann (Siegwerk) in front of the new KBA printing machine.

Over 250 years of experience and competence! Established in 1755, the company **Joh. Walch in Augsburg** is today a modern printing plant owned by the family in the 8th generation. Despite being more than 250 years old, the firm is an innovative company which produces brochures, magazines, high-quality business stationery and books.

Since 2015 Joh. Walch has been printing on a modern **LED press from KBA** equipped with an AMS curing system. Using this ozone-free technology, the company counts on **the series SICURA Litho LED** from Siegwerk. Ingo Klotz, plant manager, enumerates the seven benefits of LED UV printing:

- Faster production
- Higher productivity
- More color brilliance
- No varnish, no powder
- Bigger variety of substrates
- Fast setting with small percentage of waste
- Environmentally friendly

«All these points are fulfilled by LED UV inks of Siegwerk» says Ingo Klotz and he gives a positive feedback regarding the excellent printability of the inks. «The fast setting of the inks and the good flow in the ink fountain guarantee a safe and stable production.»

Road trip of «We color the future»

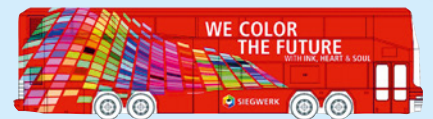
In early June, when the Drupa exhibition closes its doors, many exhibition visitors will also have visited the Siegwerk bus «We color the future», where they will have been able to request advice and support from our ink experts. The Siegwerk bus then will continue its journey and will travel throughout Europe – first to Siegwerk Switzerland Aarberg where the primary site of UV inks manufacturing is located. Then it moves on to Siegwerk France in Annemasse, before heading off to Benelux. The road trip will be the occasion to invite customers of the respective country for a plant tour and a presentation of the **latest Siegwerk solutions related to narrow web applications, low energy/LED**

curing as well as to discuss product safety and regulations. So don't miss the bus stop in Aarberg/Switzerland. Please save the date of 15th June in your agenda.



See you in Düsseldorf at Siegwerk's touchpoint Hall 3/A58 ...

... or visit us directly on Siegwerk's bus outside the hall.



We are looking forward to seeing you!

Successful INKday in Utrecht on 7th April 2016



This event in the Netherlands was part of Siegwerk's appreciated INKday series. About 70 invited customers and guests attended the meeting and discussed with our experts the future of packaging inks. During so-called INKtalks, participants had the opportunity to address specific topics in more detail like **LED and low-energy inks, solutions for high-performance flexo printing, or product safety and regulatory requirements.**

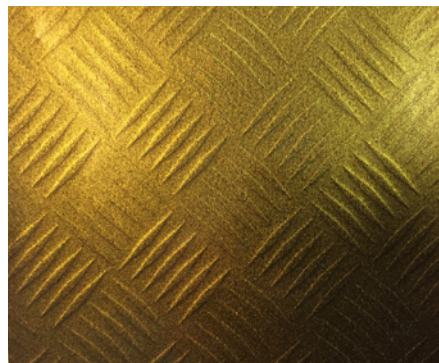
The INKday took place in Utrecht, where Siegwerk opened a new sales subsidiary in January 2016 to expand its local support for Dutch customers.



3D Evolution – what a striking 3D effect!

3D Evolution is a system that has been jointly developed and patented by **Merck** and **Rudolf Reproflex**. It consists in printing a 3D effect which visually imitates embossing of the printed substrate. This requires only an in-line or offline double coating unit or a multi-color flexo printing press with UV drying. In the first coating unit, a UV coating based on Iridodin® effect pigments from Merck and Siegwark's SICURA Flex OPV 85-600520-2 is applied to the substrate. The second coating unit, equipped with a special photopolymer plate developed by Rudolf Reproflex GmbH, will create the 3D effect – a delicate «kiss printing» of the wet layer will reposition and rearrange the alignment of the pearl luster pigments. For luxury packaging applications, e.g. cosmetics, perfumes or liquors, Siegwark recommends the **UV Flexo varnish**

85-600520-2, validated by Merck. Its adapted viscosity and properties of adhesion, flexibility and mechanical resistance will not only create this striking effect but will also meet the stringent specification of high end packaging. For further information, please contact marc.larvor@siegwerk.com.



An outstanding 3D look obtained with Iridodin® pigment in Siegwark's UV Flexo varnish **85-600520-2**

explicit Technology in detail

Migration testing of UV printed Food Packaging

The use of low migration UV systems is significantly growing in the packaging market. To support this trend to print safer food packaging in UV, Siegwark proposes state of the art low migration UV systems under its brand SICURA Nutri. Siegwark's aim is also to help its customers in this move toward low migration UV systems by providing training on product safety, customer support for product validation and implementation. **«Migration testing of UV printed Food Packaging»** is a new issue of «explicit» which explains the topics and give pragmatic recommendation on the way to handle this.

To receive «explicit», please contact explicit@siegwerk.com.



Well Worth Knowing

Pastels or lightly colored inks exhibit reduced light-fastness

Printers are often not aware that the light-fastness of inks containing a huge quantity of transparent white is significantly below the normal light-fastness of the relevant ink. The admixture of transparent white reduces considerably the component of color pigments, this leading to a visual appearance where the fading of the pigments by the effect of light becomes much more visible. The same effect can also be seen when a given ink is added in very small quantity in a blend even without transparent white. Red, orange and yellow but also violet, reflex blue of blue 072 hues are especially affected by decreasing light-fastness (and usually also by declining resistances, such as resistance to varnishing). In contrast, neutral black, cyan and green do not normally pose any problems as light-fastness decreases. Incidentally, the light-fastness is indicated on the ink containers and on our technical data sheets.

To counteract the effect of decreasing light-fastness, we recommend the use of **inks with more effective light-fast pigments**. Talk to your Siegwark application technician if you are worried about problems with light-fastness.

This issue of «explicit» is the first edition of a new series of technical publications elaborated by technical experts and focused on specific applications.