

UPDATE

News for offset printers · BU Sheetfed · EMEA Edition



Bye-bye Martial

«update» No. 1 was first released in March 2009. Right from the beginning, **Martial Buttin** was a driving force for the newsletter. And now, we say good-bye to him.

Martial Buttin, Product Manager of the Business Unit Sheetfed, will retire at the end of 2018 after 41 years of service in the company.

Many of his colleagues, industry partners and customers will miss his professionalism, his incredible experience – especially in offset packaging – but also his humor and generosity.

Martial, a real «Inky», is the father of many Tempo and Sicura products and a master in offset, colorimetry and food packaging. He already has professionally prepared his smooth succession by transmitting his know-how as much as possible to the team.



Martial Buttin (left) and his successor Jérôme Fumex

Dear Martial, we thank you for these fantastic years of cooperation and achievements and we wish you all the very best in your well-deserved retirement.

Welcome Jérôme

We are pleased to welcome **Jérôme Fumex** as successor to Martial Buttin. He will take over the product management tasks from Martial, in addition to his previous functions as head of Customer Service EMEA.

Jérôme Fumex is an Engineer EFPG (Ecole Française des Industries Graphiques, Grenoble) and joined the company already in 1998. In 2010, he was promoted to be in charge of the Global Customer Service EMEA and in this role supported many customers with Siegwerk products.

We are pleased to work with him and to benefit from his great experience.

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About new eco-friendly trends

At Siegwerk, the principle of sustainability continuously permeates all company processes. Several teams of specialists regularly deal with standards of sustainability in order to point future developments in an environmentally sustainable direction. Important topics – about which we will also report in the next update issues – currently are:

Deinkability of UV inks: Paper is one of the main targets for recycling. Deinking is the procedure to remove inks from printed paper fibres in order to produce new paper, which is easily done with paper printed by oil-based inks. UV/LED printed papers are claimed to negatively affect the paper recycling processes. The cured UV ink particles are too big to be carried to the surface in

the flotation process. Therefore, Siegwerk engineers are now working to create UV inks which form smaller particles during the curing process, according to standards of INGEDE which is testing and certifying the inks following method No. 11.

Cradle to Cradle: «cradle 2 cradle» (C2C) is concerned primarily with the uninterrupted circulation of materials in closed-loop cycles. It is a regenerative design of products and systems that models human industry on nature's processes viewing materials as nutrients circulating in healthy, safe metabolisms. (With its low migration UV offset ink series SICURA Litho NutriEco, Siegwerk has been awarded «Cradle to Cradle Gold» in 2017.)

Compostability: Packaging made of compostable materials are an alternative to conventional packaging materials. They are made from biodegradable plastics and consist partly or entirely of renewable raw materials, such as starch or cellulose.

Biodegradability: It is the decomposition of substances into smaller substances through the enzymatic activity of microorganisms. When the biological process is complete, a total transformation of the starting organic substances into simple inorganic molecules is obtained: water, carbon dioxide or methane and biomass.



Organoleptic testing of food packaging

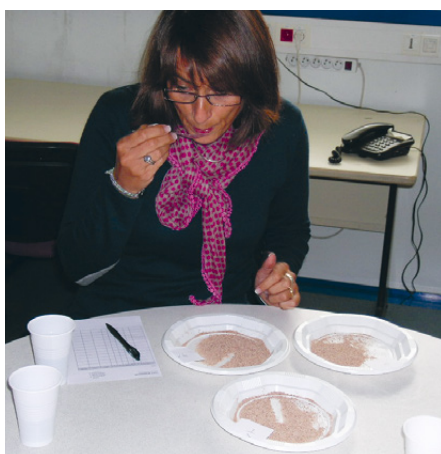
Printed packaging can unintentionally affect the content in terms of taste or smell.

To prevent inks and varnishes from affecting the content, Siegwark's laboratories are regularly testing the products used for the packaging of sensitive applications. The test conditions for paper and board

are established in the standards DIN EN 1230-1 (for analysis of odor) and DIN EN 1230-2 (for analysis of taste transfer). Since odor and taste cannot be determined with measuring instruments, experienced and sensory-trained persons are assigned to carry out the tests according to a precisely defined procedure. Normally two test methods are used: the so-called **Robinson Test** and the **Sniff Test**.



With the olfactory **Sniff Test**, printed samples are put into sealed jars for a specified number of hours at 40° C before being handed to the test persons. These must evaluate the smell without knowing which glass contains the correct sample and which contains the blanks. It is also exactly regulated how the answers of the test persons are to be evaluated.



The **Robinson Test** is a gustatory test evaluating the influence of volatile substances coming from the packaging on the taste of the packed product. As chocolate is a good medium to take on flavor, grated chocolate is exposed in standard conditions to printed samples. The test consists of three portions of grated chocolate, one of which has come in contact with the printed sample. The portions are presented to each panellist: Two of these portions are identical; the panellists must identify the odd one out.

Specification of the Expiry Date on the Container

The general rule is that the optimal characteristics of an ink are guaranteed up to the indicated expiry date. However, the inks can still be used if they do not exhibit any physical features such as a viscosity increase or gelation beginning.

For longer conservation, we recommend UV inks to be stored in closed containers, away from light and at a cool room temperature preferably below 25° C.

For a long time, the shelf life has been indicated on Siegwark's data sheets. However, in order to facilitate a better stock management (first in – first out) the expiry

date is now also printed on the packaging labels, next to the production date.

To remind you: Here are the **usual shelf lives of Siegwark inks:**

- Conventional offset sheetfed inks (process, bases and spot): 24 months
- UV offset sheetfed inks (process and bases): 12 to 18 months depending on the series
- UV spot inks: 12 months
- Fluorescent and spot inks based on metallic components: 6 months

COLOR NEWS – Edition N° 5

This new edition is particularly rich in information about topics of the color world. Articles have been issued about Inter-Instrument Agreement and real deviation, the need for regular control of the spectrophotometer, process colors – Pantone colors – spot colors, the Basic Ink System of Siegwark. The news is available on request. Please contact info@siegwerk.com to obtain this brochure.

