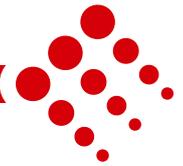


UPDATE

News for offset printers · BU Sheetfed · EMEA Edition



Siegwerk and Komori set new quality standards with K-Supply UV inks

In 2016, the Komori Corporation selected Siegwerk as its European partner to manufacture high-sensitive «K-Supply UV inks» exclusively designed for Komori's innovative H-UV system.

Under the «K-Supply» brand, Komori offers its customers a line-up of special consumables and materials that are officially approved for the company's printing presses.

Thomas Glaser, Head of Technology of the Business Unit Sheetfed, says: «Siegwerk and Komori cooperatively developed some new and revolutionary high-sensitive UV inks exclusively for Komori's energy saving H-UV curing system offering best-in-class print results. These novel K-Supply UV inks stand for high-level versatility and eco-friendly performance.» **The inks are**

characterized by top-level definition and press stability and match all Lithrone H-UV press requirements. They are compliant with the most stringent safety and environmental standards.

This also includes the compliance with the changed regulations and reclassifications in the EuPIA Exclusion Policy. So the series are free of the photoinitiator Omnirad-369,



10 years of update

In April 2009, the first issue of *update* was published. With the present issue No. 40, we celebrate the 10th anniversary of *update*. Congratulations!

free of Ethyl-4-dimethylaminobenzoat (EDB), 2-Ethylhexyl-4-dimethyl-aminobenzoat (EHA) and 4-Phenylbenzophenon (4-PBZ).

The high reactive H-UV-L KR916 series fully satisfy all demands of UV offset Komori equipped printers with regard to technical performance, printing speed and rub resistance. There is no misting and no feathering. The process color series shows trouble-free curing, good water/ink balance and complies with the ISO 12647-2 standard.

Would you like to know more about how K-Supply UV inks are produced?

Take a look at the Komori video on <https://platform.vixyvideo.com/tiny/6qlyr>

Siegwerk inks are free of EDB, EHA and 4-PBZ



Since summer of last year, these three substances are classified as toxic to reproduction category 1B.

Following the REACH registration and reclassification as reprotoxic, Ethyl 4-(dimethylamino)benzoate (EDB), 2-Ethylhexyl 4-(dimethylamino)benzoate (EHA) and 4-Phenylbenzophenone (4-PBZ) are excluded according to the principles of the EuPIA Exclusion Policy. Therefore, Siegwerk has taken all necessary action to reformulate inks and varnishes without these raw materials.

In particular, Siegwerk emphasizes that from February 2019 the following UV series are manufactured without the dubious photoinitiators 369, EDB, EHA and PBZ.

For low migration series:
SICURA Nutriplast 2, SICURA Nutriboard 2, SICURA Plast LM, SICURA Nutriplast IML.

For standard series:
SICURA Plast SP, SICURA Lithoboard 900, SICURA LNRGY/LED.



Siegwerk UV/LED inks prove great deinkability on various paper grades

In a joint research project Siegwerk and Stora Enso (known as the renewable materials company) improved the deinkability of UV/LED cured prints as a result of an enhanced UV/LED offset ink system for coated and uncoated types of paper.

In general, paper that is printed with UV/LED inks shows a problematic deinkability as these inks form a solid mechanically resistant layer after curing. In other words, UV/LED inks are strongly attached to the paper fibre and therefore very hard to remove during the recycling process.

The cooperation of Siegwerk with Stora Enso brought highly satisfactory results: The Siegwerk specialists have succeeded



Enhancing the ecological footprint of the company's inks with no loss of performance is one of the key development efforts.

in developing UV/LED offset inks with good deinking properties that are comparable to conventional oil-based sheetfed offset inks which are classified as well suited for deinking procedures.

The deinkability of the new inks has been checked at Stora Enso's Support Center in Mönchengladbach/Germany, using the INGEDE method 11 (01/2018) and the European Paper Recycling Council EPRC scorecard, the officially approved industry standards for deinking testing. The new UV/LED ink system is suitable for all UV dryers and is free of the reclassified photoinitiators 369, EDB, EHA and PBZ. **A full range of process colors, base and special colors is available.**

NEW: LED UV Offset Gold and Silver

- L-NRGY/LED Rich Gold – PMS 871 - 71-400081-7.1821
- L-NRGY/LED Rich Pale Gold – PMS 873 - 71-400082-5.1821
- L-NRGY/LED Pale Gold – PMS 875 - 71-400086-6.1821
- L-NRGY/LED Silver – PMS 877 - 71-400091-6.1821



Thanks to new components, these SICURA Litho Metal LED inks produce a superb metallic effect, excellent coverage and show a high curing level.

The new UV series «ready to use» is designed for the production of metallic shades by H-UV/LE-UV/LED as well as by mercury curing systems. The series is Omnirad-369 free, but also free of EDB, EHA and PBZ, and the replacement of these photoinitiators **has been achieved without compromise on the reactivity and the printability.** The inks are easy to handle; they are very glossy, offer lovely brilliance and are characterized by high opacity and excellent coverage. Superior transfer quality and stability are further benefits of this series.

Give your prints and packaging an enticing appearance with these beautiful gold and silver shades.

COLOR NEWS – Edition N° 6

This new edition is particularly dedicated to the metallic inks and varnishes. It also informs about Coldfoil, Hot-Stamping and other methods to beautify your packaging. The news is available on request. Please contact info@siegwerk.com to obtain this brochure.

