

Press Release

Gräfelfing, 27. November 2014

From UV to UV-LED

At the European Coatings Show UV specialist Hönle presents curing solutions and systems for UV reactive coatings and inks.

Dr. Hönle AG offers innovative UV and UV-LED curing systems for coating, varnishing and finishing web substrates or three-dimensional objects. The curing process is finished within a split second and guarantees first-class printing as well as high-quality and robust surface finishing of various materials.

UV-LED technology yesterday and today

Only recently, UV-LED was resumed to be a future technology for the coatings industry: little-researched, too expensive. Hönle has been very successful in supplying UV-LED curing systems for other markets for many years. So, during the last years, they could use their experience and know-how for developing innovative UV-LED products which can perfectly be applied for curing varnishes and coatings.

At European Coatings 2015 Hönle will present their **product series LED Powerline**. This high-performance array is used for pinning and curing in printing and coating processes. Always perfectly adapted to the particular application, the LED Powerline is offered as an air or water cooled version. By applying special optics the working distance between LED and substrate can be increased up to 120 mm.

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Conventional UV technology – fast, efficient, effective

Depending on the application, it is better to apply a conventional UV curing device. A high-quality representative of classical UV technology is Hönle's **pureUV**. Its patented reflector geometry avoids a direct irradiation on the substrate. Thus the temperature load by IR radiation is decisively reduced. Nevertheless, pureUV achieves very high intensities, which lead to considerable improvements in curing inks, varnishes, coatings, adhesives and sealants.

Compared to conventional power supply, a 10 % higher UV yield is reached at identical performance when using Hönle's **electronic power supply**. The interaction of the ideal power supply, high-class UV lamps and optimized reflector geometry, results in a better cross linking and thus in a faster and absolutely reliable curing.

UV curing under inert conditions

Premium coatings, as for packaging materials or siliconization, are often cured under inert conditions. At the inertization process the oxygen in the irradiated area is displaced by an inert gas, usually nitrogen. For **inert curing** the UV inks and coatings need to have a significantly lower share of photoinitiators. Additionally, less UV output is needed to get an optimal curing result. Under inert conditions even very temperature sensitive substrates can be cured.

Visit Dr. Hönle AG at the European Coatings Show 2015 in hall 5, stand 428.