

DELO presents DELOLUX 80/365 nm with shorter wave length / Broad assortment of LED curing lamps

Windach, September 2nd, 2008: DELO Industrial Adhesives presents a further member of the DELOLUX 80 family – a UV-LED curing lamp with a shorter wavelength of 365 nm. Especially all UV-curing adhesives can be cured fast and at an optimal degree of efficiency by means of the adapted spectrum.

Short cycle times and fast reliable serial processes are the crucial criteria for today's industrial production. DELO, as a system provider, not only supplies tailor-made adhesives for the serial process, but has also extended its lamp assortment from semiconductor light sources to the UV range.

The outstanding feature of the LED curing lamp is an extremely high and at the same time highly stable output intensity due to the integrated liquid cooling. This system cools down the LED with maximum efficiency and like this a top-level power density can be maintained for a duration of tens of thousands of operating hours. Compared with other similar lamps available on the market a ten times higher output is achieved. Even under full load during permanent operation the service life (=illuminated time) is far in excess of 20,000 hours. This results in an effective service life of more than 50,000 hours as the irradiation time of the lamp normally is only a fraction of the total cycle time of the application. In addition the LED lamp reproducibly reaches its full output power after 0.1 seconds and, thus, can be used at once and with a high grade of repetition accuracy. The lamp meets all requirements for fast curing while at the same time guaranteeing for top process reliability.

Another advantage of the unique liquid cooling: The lamp head is kept very compact and, thus, is only insignificantly larger than the light guide itself. The DELOLUX 80 can therefore be easily integrated into any system even under difficult conditions of implementation. As all other lamps of the DELOLUX 80 family, the UV version can also be controlled and monitored by means of DELO-UNIPRO or SPS without any problems.

The LEDs offer numerous advantages over traditional discharge lamps. Their longevity significantly reduces the downtimes of production plants while simultaneously reducing maintenance and spare part costs to a minimum. DELOLUX 80 is ideal for applications with short cycle times as for example in microelectronics as it can be switched at a user-defined pulse. Up to now the LED curing lamp was available with wavelengths of 405 nm and 460 nm. With the extension to the UVA wavelength range of 365 nm DELO now offers the complete breadth of LED lamp systems for all light and UV-curing adhesives.

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About DELO:

DELO is a leading manufacturer of industrial adhesives with its head office in Windach, 40 km west of Munich, and 210 employees (stand: 31st march 2008). The company provides tailor-made special adhesives as well as complementing equipment for applications in all lines of business – from electronics to the chip card and automotive industry as well as in glass and plastic design. DELO's customers are, for example, Bosch, Daimler, Festo, Infineon, NXP (formerly Philips) and Siemens. In the past financial year the company achieved a turnover of EUR 30.6 million. DELO has a global network of distributors and sales partners.

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Pic. 1: High-intensity LED point light source:
Curing lamp DELOLUX 80 with new wave length