

Press information

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Bondexpo from 13 to 16 September 2010 in Stuttgart, Hall 7, Stand 7504

Bonding metals

Panacol's professional Penloc[®] and Structalit[®] ranges and Hönle UV technology

At this year's Bondexpo in Stuttgart (13 to 16 September, Stand 7504) the Hönle Group and its adhesives specialist Panacol will be presenting their high-tech metal bonding products. As well as new additions to the well-known and proven Penloc[®] and Structalit[®] series of adhesives and sealants, the Group will be introducing its dispensing equipment and systems. With a special focus on metal-to-glass and metal-to-plastic bonding, innovative UV and UV LED curing technology – including UV LED point sources and flood lamps – will also be on display.

Metal bonding with Penloc[®] and Structalit[®]

When it comes to joining temperature-sensitive or surface-treated metals, or different types of metals, bonding is an effective alternative to conventional joining methods.

The acrylic-based **Penloc[®] adhesives**, which can also be applied bead-on-bead, are ideal for both metal-to-metal bonding and for joining metals to other materials. These adhesives reach their initial strength after just two to five minutes. Suitable for all hard, nonporous materials, they are exceptionally versatile: bonding corner brackets to window frames, joining roof racks, bushing bonds, sensor housings, electric motor magnets, lipsticks, and metals exposed to high temperature strain (GTH-T).

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Brand new on the market – Penloc® GTH-C: Ideal for bonding plexiglass to aluminium or stainless steel – for example on display cabinets with aluminium frame – this adhesive produces an “almost invisible” bond.

Penloc® GTH-T is especially temperature-resistant and can be painted over. Since it remains unaffected by the baking, it is also suitable for structural bonding of metal components that are subsequently powder coated. Other uses include joining metals with ceramics and with FR-4 glass epoxy.

Further highlights of the Penloc® range include **Penloc® GTI** and **Penloc® GT-AP**, both capable of transmitting large forces under dynamic load. A unique feature on the market, Penloc® GT-AP is completely odourless.

The epoxy adhesives of the **Structalit® series** are ideally suited for joints that were previously always welded. Saving time and costs in assembly, they are easy to process and feature outstanding strength and stress-compensating characteristics.

Structalit® adhesives have a wide range of applications, from bonding metals in the trade and crafts sector through encapsulation of electronic components to high-tech electronics applications.

Metal–glass bonding with UV technology

Metal-to-glass and metal-to-plastics bonding represent a specialist field of metal bonding, in which modern UV system technology is becoming increasingly popular. The excellent interaction of Panacol’s chemical products and Hönle’s innovative UV curing devices make the Hönle Group a unique single-source system provider on the adhesives market. As one of the world’s largest suppliers of industrial UV technology, Hönle offers an extensive range of UV and UV LED curing devices. At this year’s Bondexpo the UV specialist is presenting its successful UV hand and point sources as well as its latest developments in the UV LED sector.

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Introduced only last year and already widely used for curing small surface areas: The **LED Spot**, whose light aperture covers an area of 20 × 20 mm and can, depending on the required intensity and homogeneity, be significantly increased by changing the lamp's distance from the substrate. In addition the exposed surface can be split into four segments that can be controlled independently of each other. In combination with the proven Höhle control unit, complete processing sequences – such as exposure sequences with varying intensities and waiting times – can be programmed to minimise cycle times especially in fully-automated production lines. The LED spot is available with air or water cooling,

Also on display will be the proven **LED Powerline**. This high-performance array is the perfect choice for curing UV-reactive adhesives and sealants. Its low weight and compact size of just 88 mm × 20 mm × 50 mm permit its integration in very small spaces.

The LED Powerline is now available in variable lengths and can be extended to more than one metre in 40 mm increments. Also newly available are a range of different lenses for the **bluepoint LED**. This proven LED point source has been developed for applications requiring high-intensity UV irradiation. Up to four separately controllable LED heads can be connected to its lamp unit. Höhle has further improved its tried-and-tested products and is now offering LED heads with **different lenses**, which can be selected and even exchanged depending on application requirements.

Professional adhesives and state-of-the-art curing devices, optimally matched and from a single source: the Höhle Group with its specialists Panacol and Höhle.

Visit us at the Bondexpo 2010, Hall 7, Stand 7504 and find out more about the Höhle Group's innovative system products.

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About the Hönle Group:

In addition to consolidated parent Dr. Hönle AG (UV systems), the Hönle Group comprises Aladin GmbH (UV lamps) and adhesives specialist Panacol. Further members are the dryer specialists PrintConcept (web offset printing) and Eltosch (sheet feed offset printing). Beside subsidiaries in France, Spain, the United Kingdom and the United States, as well as a representative office in China, Hönle has a closely knit, worldwide network of sales partners.