

Press information from the Hönle group

Special Bonding Exhibition at the Schweißen & Schneiden Fair from 14 to 19 September 2009 in Essen, Germany, Hall 6/Stand 6-420

**Bonding rubbing shoulders with welding,
riveting and bolting**

**Adhesives specialist Panacol in the Bonding
Pavilion at the Schweißen & Schneiden trade fair**

Steinbach, August 2009. Adhesives specialists Panacol of the Hönle group is, for the second time, present at the special bonding exhibition at the Schweißen & Schneiden 2009 welding and cutting trade fair in Essen (14 to 19 September, Hall 6/Stand 6-420). As a renowned adhesives manufacturer, the Hönle subsidiary cooperates with well-known partners – adhesives producers, application system manufacturers and the Fraunhofer Institute for Applied Materials Research – to jointly cover the complete value-added chain of bonding – a technology with great relevance for the future – in a pavilion dedicated exclusively to this topic. The special exhibition will document the rapid development of adhesive technology, which, as a joining method, today has the same status as welding, brazing, riveting and bolting. The latest applications will also be presented here.

Panacol will this year focus on universal joining of metals with metals and with other materials. New epoxy resins of the **Structalit®** family and acrylic-based **Penloc® products** will be presented. **Hönle's UV technology** will also play an important part in the exhibition: unique products will be shown, such as the **Vitalit® system**, which achieves outstanding results thanks to the perfect interplay of Panacol's chemical products with Hönle's innovative UV curing equipment.

The Panacol adhesives:

Structalit® adhesives have a wide field of applications, from bonding in the trade and crafts sector through encapsulation of electronic components to high-tech electronics applications. They are also the ideal alternative to joints that would previously have been welded. In this application they reach comparable strengths as well as compensating stresses within the joint, despite yielding significant cost and time savings compared to welding.

The all-rounders of the **Penloc®** family join metals both with metals and with other hard, nonporous materials. Examples include bonding corner brackets with the window frame, roof racks or bushing bonds, sensor housings, electric motor magnets, lipsticks, metal bonds with high temperature strain (GT-HT) and bonding PMMA presentation displays.

As numerous the possible applications as varied are the specific properties of each **Penloc® product**: **Penloc® GTI** and **Penloc® GT-AP**, for example, achieve a high force transmission under dynamic loading and have a low and a high flash point respectively. **Penloc® GTH-T** joins metal and ceramics and is suitable for FR4. **Penloc® GT-AP** is, in addition, especially user-friendly: being almost completely odour-free it is a unique product on the market.

Bonding metal with UV technology:

UV- and visible light-curing adhesives are always more versatile. Products of the Panacol **Vitralit® series** are also suitable for bonding metal to glass. Being single-component and solvent-free, they do not have a limited pot life and are easy to apply. With **Hönle hand UV lamps** or **UV LED lamps** they can be cured within just a few seconds.

Adhesives expert Panacol and UV specialist Hönle are an unbeatable team. With innovative new products the group's UV technology is revolutionising bonding technology in almost all areas of modern industrial bonding.

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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 dryer specialists for web offset printing PrintConcept and dryer specialists for sheet feed offset printing Eltosch. Beside subsidiaries in France, Spain and the United Kingdom and a representative office in China Hönle has a closely knit network of sales partners throughout the world.

About Hönle: Dr. Hönle AG is the world's second largest supplier of industrial UV technology. The stock exchange-listed UV specialist develops, produces and distributes UV systems, UV lamps, UV adhesives and UV measuring systems throughout the world. Its systems are used in cross-linking photoreactive substances as well as for surface sterilisation and solar radiation simulation.

Hönle's products are used in electronics, microelectronics, precision mechanics, and optics production processes and in the printing, car, aerospace and pharmaceutical industries.

About Panacol: Since 2008 Swiss Panacol AG is the Hönle group's specialist for industrial adhesives, supplying a wide range of UV adhesives, structural adhesives, silicones and other system products, including such well-known brands as Elecolit® and Vitralit®. The company has sites in Switzerland, France and Germany. Product development and production are based in German group member Panacol-Elosol's headquarters in Steinbach near Frankfurt and the central storage facility and international sales are also located in Germany.