

## PRESS RELEASE

### **Flexible adhesives for mechanical engineering and construction**

DELO develops new impact-resistant epoxy resins

**Windach / Melville, 11 August 2009: DELO Industrial Adhesives has recently developed flexible adhesives for structural bonding. These cold-curing, two-component adhesives are characterized by high flexibility and tension-equalizing properties. Moreover, they are resistant to elevated temperatures and aggressive substances. As multi-purpose adhesives, they are particularly suitable for applications in mechanical engineering and electronics.**

Component assembly presents continuously growing challenges, as ever more varied materials must be connected. In addition, components are often subjected to mechanical stress such as vibrations or impacts. To meet this need, DELO has developed special epoxy resins that are substantially more flexible than the conventional epoxy resins currently available in the market. Consequently they equalize vibrations and tensions very well. Further properties of these new products are their high elongation at tear between 30 and 60 % - for comparison: conventional two-component epoxy resins have an elongation at tear of only 2 percent – and their excellent adhesion to a wide range of materials, such as ceramics, metals and many types of plastic. The new resins are also useful for light-weight construction, since they bond carbon and glass fiber well. Their tension-equalizing properties make them appropriate for bonding on large surface areas.

The new adhesives have been scrutinized in tensile, thermal aging and temperature storage testing. Three standard products are available: DELO-DUOPOX AD850, DELO-DUOPOX AD821 and DELO-DUOPOX CR804.

The new adhesives are used not only in mechanical engineering, but also in electronics. Possible applications include the protection of capacitors against vibration and the fixing of ferrites and coil bodies. They can be also used as casting compounds in tool construction, and to seal or bond housings.

**About DELO:**

DELO is a leading manufacturer of industrial adhesives with its head office near Munich/Germany. In the financial year 2008/09 230 employees generated a turnover of EUR 30 million. The company supplies tailor-made special adhesives and complementary equipment for applications in special 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 and Siemens. DELO has a network of worldwide distributors and sales partners.

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Photo: DELO-DUOPOX CR804