



**Press release**  
Irvine, California, August 8, 2006

## **New Material Set from Henkel Delivers Exceptional Performance for Stacked CSP (SCSP) Packages**

The next in a series of recently introduced optimized material sets, Henkel has announced a materials combination designed specifically for the unique manufacturing requirements of stacked CSP (SCSP) devices. Uniting the robust performance characteristics of die attach material Hysol® QMI536NB with that of mold compound Hysol® GR9820, this latest material set delivers proven, reliable JEDEC Level 1/260° reflow performance.

Both materials perform well in lead-free environments, with a high resistance to elevated temperatures and demanding manufacturing conditions. Hysol® GR9820 is an extremely versatile and technologically advanced epoxy molding compound with adhesion properties that can be optimized for varying leadframe metallizations, delivering tremendous production flexibility. The very low-stress, "green" mold compound exhibits ultra low warpage in a matrix package format, with the ability to alter the mold compound resin components to counter-correct "smiling face" or "crying face" warpage in a wide range of package types. This unique formulation capability ensures the flatness and, thus ease of processing of the device as it moves through the subsequent singulation and board level assembly processes.

"Our materials set approach is distinctive not only because of our demonstrated ability to develop tested, compatible materials for particular applications," states Michael Todd, Technical Director of Research, Design and Engineering for the electronics group of Henkel, "but also for Henkel's expertise in being able to alter and optimize these materials to address very specific manufacturing challenges such as warpage control. This latest material set design is just further proof of this unrivalled capability."

**Adhesin**

**Bonderite**

**Hysol**



**LOCTITE**



**technomelt**



Combining the superior properties of Hysol GR9820 with those of die attach material Hysol QMI536NB provides an advanced material set formula with exceptional user benefits. Unique for this class of materials is Hysol QMI536NB's one-material solution for thin stacked die applications. Traditionally, different die attach materials are used for each of the various layers of a stacked package so as to avoid damage to the die passivation of the first die. Hysol QMI536NB, however, embodies a protective and low-bleed formulation, allowing it to be successfully used for both mother and daughter die. This enables packaging specialists to qualify a single material, thus streamlining the supply chain and reducing manufacturing costs.

“The versatility of each of these materials in and of themselves is unmatched,” concludes Todd. “When joined in this customized material set, though, the performance they deliver for SCSP applications and the flexibility they provide to manufacturers make this material set completely untouchable.”

For more information on Henkel's Hysol GR9820 and Hysol QMI536NB material set or any of the company's next generation materials combinations, log onto [www.electronics.henkel.com](http://www.electronics.henkel.com) or call 949-789-2500.

### **About the electronics group of Henkel**

Henkel is one of the world's leading and most progressive providers of qualified, compatible material sets for semiconductor packaging, board level assembly and advanced soldering solutions. Through its Hysol, Loctite and Multicore brands, and its global customer support infrastructure, the electronics group of Henkel delivers world-class materials products, process expertise and total solutions across the board to enable tomorrow's electronics industry.

Henkel, a Fortune Global 500 company, operates in three strategic business areas: Home Care; Personal care; and Adhesives, Sealants and Surface Treatments, which serves the transportation, electronics, aerospace, metal, durable goods, consumer goods, maintenance and repair and packaging industries, and offers a broad range of products for the craftsman and consumer. With brands and technologies, Henkel makes people's lives easier, better, and more beautiful. 50,000 employees work for Henkel worldwide. People in 125 countries around the world trust in brands and technologies from Henkel – “A Brand like a Friend”.

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