



**Press Release**

## **New Flip Chip Underfill Now Available from Henkel**

*Hysol® FP4548FC Provides Superior Fracture Resistance; Improves Thermal Cycling Performance*

The electronics group of Henkel has brought to market its latest high purity, liquid epoxy encapsulant material, Hysol® FP4548FC. The advanced material has been designed specifically for use as an underfill for flip-chip devices and provides superior flow and more robust processing capability as compared to competitive products.

Hysol FP4548FC features a low coefficient of thermal expansion (CTE) and low shrinkage – characteristics that are perfect for low k die applications. When fully cured, the material creates a rigid, high-strength, low-stress seal that dissipates solder joint stress, greatly extends thermal cycling performance and simplifies the assembly process.

Manufacturers transitioning to lead-free processes can confidently use Hysol FP4548FC, as the material is compatible with Pb-free manufacturing requirements. The unique formulation of Hysol FP4548FC also makes it ideally suited for flip-chip devices that require crack and fracture resistance and, due to its flux compatibilizers, the material works very well with most available no-clean fluxes. In most cases, post-assembly flip-chip cleaning processes may be eliminated, saving manufacturing time and capital resources.

Hysol FP4548FC is JEDEC Level 3/260°C qualified and is ideal for ASICs and all advanced packages that require a low CTE.

For more information on Hysol FP4548FC or any of Henkel's semiconductor packaging materials solutions, call (949) 789-2500 or visit [www.electronics.henkel.com](http://www.electronics.henkel.com).

--Ends--

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

Henkel is the world's leading and most progressive provider 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 electronic industry.

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

<b>Company Contact</b>	<b>Agency Contact</b>
Doug Dixon <b>Henkel</b> (p) 949-789-2500 E: <a href="mailto:doug.dixon@us.henkel.com">doug.dixon@us.henkel.com</a> <a href="http://www.electronics.henkel.com">www.electronics.henkel.com</a>	Laura Sims <b>Protean Marketing Communications</b> (p) 404-661-0348 E: <a href="mailto:laura@proteanmarketing.com">laura@proteanmarketing.com</a> <a href="http://www.proteanmarketing.com">www.proteanmarketing.com</a>