



## Press release

Düsseldorf, May 05, 2009

New High-Temp Compatible Conductive Film for RF Grounding Applications

# Henkel Launches Ground-Breaking Film Technology

Advancing the performance of electrically conductive film technology, Henkel has developed and launched Emerson & Cuming® CF3366™, a ground-breaking film technology that offers a robust alternative to traditional conductive materials.

Emerson & Cuming CF3366 is a high adhesion strength electrically conductive film formulated for electrical, thermal and mechanical assembly applications. The material delivers outstanding adhesion at elevated temperatures, offers high electrical conductivity and provides for uniform and void-free bondlines. In addition, the low temperature, quick cure capabilities of Emerson & Cuming CF3366 ensure maximum process flexibility and ease-of-use. All of these adhesive properties combine to ensure reliable RF ground plane performance even in extreme environmental conditions.

Historically, electrically conductive interface materials such as solder, thermal greases and conductive films have been used for RF grounding applications. However, film materials have emerged as the most robust electrically conductive products because of their ability to promote superior grounding function, consistent processing during assembly and deliver void-free bondlines over a very large area. Conductive films also deliver better RF performance with minimized losses and distortion of high frequency digital signals, while maintaining low impedance to the ground plane. New requirements, however, dictate that conductive films provide all of these proven benefits in addition to delivering reliable bonding at both room temperature and elevated temperatures.

Applications in defense and other industries have moved toward smaller, more complex and higher frequency devices and conductive adhesives must address

these new technology demands by offering stable bonding even under very harsh environmental aging. Traditional conductive adhesives are less stable at higher temperatures so are not effective for these applications. Henkel's Emerson & Cuming CF3366, however, has been formulated specifically to comply with higher temperature environments.

Enabling operation at high frequency, Emerson & Cuming CF3366 maintains robust adhesion at elevated temperatures and provides improved mechanical stability. When tested against a well-known, commercial conductive film, Emerson & Cuming CF3366 emerged as the most robust solution, delivering superior adhesion at elevated temperatures even under harsh environmental conditions, better processing through lower curing temperature and a shorter curing time, and superior performance after exposure to moisture sensitivity level conditions.

Emerson & Cuming CF3366 effectively delivers what specialists in many industries have long-desired: all of the inherent benefits of traditional conductive film technologies with the added advantage of high temperature resistance and stability. For more information on Emerson & Cuming CF3366 or any of Henkel's advanced assembly materials, visit [www.henkel.com/electronics](http://www.henkel.com/electronics).

For more than 130 years, Henkel has been a leader with brands and technologies that make people's lives easier, better and more beautiful. Henkel operates in three business areas – Home Care, Personal Care, and Adhesive Technologies – and is ranked among the Fortune Global 500 companies. More than 60 percent of Henkel's sales are in fast-moving consumer goods, while the industrial business accounts for almost 40 percent of the company's total sales. In fiscal 2008, Henkel generated sales of 14,131 million euros and adjusted operating profit of 1,460 million euros. Our more than 55,000 employees worldwide are dedicated to fulfilling our corporate claim, "A Brand like a Friend," and ensuring that people in more than 125 countries can trust in brands and technologies from Henkel.

## Contact

Henkel AG & Co. KGaA  
Peter Kreft  
Phone: +49 211 797- 1458  
Fax: +49 211 798- 11458  
[Press@Henkel.com](mailto:Press@Henkel.com)

Henkel Corporation  
Doug Dixon  
Phone: +01 949-789-2500  
Fax: +01 949-785-2595  
[doug.dixon@us.henkel.com](mailto:doug.dixon@us.henkel.com)

Chief Communications Officer  
Ernst Primosch, Corporate Vice President