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## **NEI Corporation and Chisso Corporation to collaborate and develop new self-healing polymer coatings**

Somerset, NJ – NEI Corporation of USA and Chisso Corporation of Japan have signed an agreement to develop a new class of self-healing coatings for flat panel display and related markets. Under the terms of the agreement, Chisso Corporation will fund the effort, and NEI Corporation will build upon its core competency in nanoscale materials and self-healing technology to develop self-healing coatings for the intended applications. The initial term of the agreement is twelve months.

Exchange of data and samples over the course of several months between NEI and Chisso has culminated in this joint development agreement. NEI Corporation will synthesize and formulate the self-healing coatings at its laboratories in New Jersey. Engineers and chemists at Chisso Corporation will evaluate the samples developed by NEI and tailor the program to meet their customers' requirements.

Coatings that, when scratched, can be repaired on their own (i.e., without human intervention) is a phenomenon called self-healing. Self-healing offers the possibility of maintaining specific gloss and optical clarity characteristics of surfaces for extended periods of time. In contrast, conventional coatings lose their aesthetic appearance once damaged by scuffs and nicks. Self-healing coatings available to date have several shortcomings, such as low surface hardness and an inability to be healed multiple times. NEI Corporation has developed a new class of self-healing coatings that overcome these problems. This self-healing phenomenon has been demonstrated to date in polyurethane, a commonly used transparent coating material.

"We have identified a number of applications where our customers would like to have a self-healing coating", says Chisso's Mr. Yozo Shimomura. He added, "This will add value to our products". NEI's Dr. Ganesh Skandan states, "We are excited about transitioning our self-healing technology into real world applications. We are especially pleased to be partnered with Chisso Corp, who have well-developed global markets."

### **About NEI Corporation**

NEI Corporation develops, manufactures and distributes nanoscale materials for a broad range of industrial and government customers around the world. The company's products incorporate



proprietary nanotechnology and advanced Materials Science to create significant performance improvements in manufactured goods. NEI's products include advanced protective coatings, highperformance battery electrode materials and specialty nanoscale materials for diverse applications. NEI has created a strong foundation in the emerging field of nanotechnology that has enabled the company to become a leader in selected markets. Established in 1997, the company is based in Somerset, NJ. For more information, contact NEI Corporation at (732) 868-3141 or visit [www.neicorporation.com](http://www.neicorporation.com).

#### **About CHISSO CORPORATION**

CHISSO CORPORATION is a leading Japanese chemical company that aims to contribute to society's progress through superior technologies, and whose products range from liquid crystal and other relating materials for flat panel display industries to a variety of plastic and other basic chemical products. CHISSO CORPORATION is also developing new products such as precision fabricated products, electronics & IT materials and photovoltaic power generation materials. Founded in 1906, the company is based in Tokyo, Japan with offices in Rye, NY and affiliate companies in the suburbs of Atlanta, GA. For more information, contact CHISSO CORPORATION at +81 3 3243-6260 or visit [www.chisso.co.jp](http://www.chisso.co.jp).