

Self-Healing Materials : Region, Key Players, Competition and Forecast to 2021

Global Self-Healing Materials Market 2016 Analysis and Forecast to 2020

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Global [self-healing materials](#) market is currently, in 2015, at a nascent stage and is expected to grow exponentially, till 2020. The promising potential of this self-healing material in the new field of innovation can extend the lifetime and safety of the products. It can also reduce the demand for a raw construction materials and allow machines in a remote locations to stay operative. Because of this, these materials are deemed as one of the top emerging technology.

Self-healing can be defined as the ability of a material to heal (recover/repair) damages automatically and autonomously, that is, without any external intervention. The ability of a material to show autonomous or activated self-repair is of importance in view of costs, sustainability, and safety. Various strategies to induce self-healing in structural and functional materials where damage management and self-repair is of relevance.

Initial applications to be brought to marketplace would be in a self-healing coatings that is used on the sea resources which includes the docks, ships, or the oil and gas platforms in order to strengthen a steel that is underneath from a corrosion. The coatings were mostly shop-worn impact when the structures are changed or just being installed or just by a collision with the other bodies in the water.

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The technology can be potentially used in the high performance composite polymer materials which would be replacing the new generation of the superjumbo aircraft. A simple model of this bio inspired technology would be using a hollow fiber which contains liquids that would leak out and would repair the damage on the impact.

Micro cracking and hidden damages are the initiators for structural failures. On the other hand, high maintenance and repairing costs limit the acceptance of different materials in engineering disciplines. Repairing at remote locations is very difficult. In this context, self-healing materials possess tremendous potential in increasing the longevity of structural materials. To be able to



develop new innovative solutions based on biomimetic approaches, it is an ultimate need to overcome the difficulties of damage detection and achieving an autonomic-healing phenomenon. Besides autonomic-healing, non-autonomic processes will also find industrial applications.

The growing trend towards lower vehicle weight, lower emissions and enhanced fuel efficiency is expected to drive the consumption growth of self-healing materials in the automotive and transportation industry. The high sales growth of the passenger cars in emerging markets such as China and India is also expected to boost the market.

Key Deliverables in the Study

Market analysis for the Self-healing materials Market, with region specific assessments and competition analysis on global and regional scales

Market definition along with the identification of key drivers and restraints

Identification of factors instrumental in changing the market scenarios, rising prospective opportunities, and identification of key companies that can influence this market on a global and regional scale

Extensively researched competitive landscape section with profiles of major companies along with their market shares

Identification and analysis of the macro and micro factors that affect the Global Self-healing materials market on both global and regional scales

A comprehensive list of key market players along with the analysis of their current strategic interests and key financial information

A wide-ranging knowledge and insights about the major players in this industry and the key strategies adopted by them to sustain and grow in the studied market

Insights on the major countries/regions in which this industry is blooming and to also identify the regions that are still untapped

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