Self-Healing Materials Market by Form (Extrinsic, Intrinsic), Material Type (Concrete, Coatings, Polymers, Asphalt, Ceramic, Metals), End-Use Industry (Building & Construction, Transportation, Mobile Devices), and Region - Global Forecast to 2021

Description: The growth of the market can be attributed to the properties of self-healing materials that yield long-term financial benefits compared to traditional materials. Building & construction is one of the major end-use industries for self-healing materials in emerging as well as developed economies. Self-healing materials are largely used in concrete. Rising awareness regarding the benefits of self-healing materials is also expected to fuel the demand for these materials. Self-healing materials are currently very expensive as compared to conventional materials. This may restrain the growth of the market in near future.

“Building & construction is estimated to be the largest segment of the self-healing materials market”

The widest adoption of self-healing materials has been in the building & construction end-use industry, where high material performances are increasingly required and where the use of self-healing material has resulted in several benefits. Self-healing materials are used for wear protection of structural components. The use of self-healing materials helps increase the lifetime of structures, resulting in reduced material repair costs.

“The extrinsic segment is expected to witness higher growth during the forecast period”

The extrinsic self-healing materials segment is expected to witness a higher growth than intrinsic systems, as unlike intrinsic systems, extrinsic systems can achieve healing efficiencies over 100% even when the damage is large.

“The self-healing materials market in RoW market estimated to witness highest growth during the forecast period”

In South Africa, Saudi Arabia, and to a lesser extent, Brazil, rising awareness about the benefits of self-healing materials has led to the increased adoption across various end-use industries.

In the process of determining and verifying the market size for the several segments and subsegments gathered through secondary research, extensive primary interviews were conducted as follows:

- By Company Type: Tier 1 (45%), Tier 2 (35%), and Tier 3 (20%)
- By Designation: C-level (35%), Director Level (25%), and Others (40%)
- By Region: Europe (55%), North America (32%), Asia-Pacific (9%), and RoW (4%)

The key players profiled in the report include Acciona S.A. (Spain), AkzoNobel N.V. (Netherlands), Applied Thin Films, Inc. (U.S.), Arkema SA (France), Autonomic Materials Inc. (U.S.), Avecom N.V. (Belgium), BASF SE (Germany), Covestro AG (Germany), Critical Materials S.A. (Portugal), Devan Chemicals (Portugal), E.I. Du Pont De Nemours and Company (U.S.), Evonik Industries (Germany), Sensor Coating Systems Ltd. (U.K.), and Slips Technologies, Inc. (U.S.).

Study Coverage

This report covers the self-healing materials market, in terms of value, and forecasts the market size till 2021. The report includes the market segmentation based on form, material type, end-use industry, and region. It also provides company profiles and competitive strategies adopted by the key players in the self-healing materials market.

Key benefits of buying the report:

This research report is focused on various levels of analysis—industry trends, market share analysis of key players, supply chain analysis, and company profiles, which together comprise and discuss the overall views on the competitive landscape; emerging and high-growth segments of the self-healing materials market; high-growth regions; and market drivers, restraints, and opportunities.
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Details on Company at A Glance, Recent Financials, Products & Services, Strategies & Insights, & Recent Developments Might Not Be Captured in Case of Unlisted Companies.

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