

Self-Healing Concrete Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2022-2027

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Abstracts

The global self-healing concrete market size reached US\$ 34.9 Billion in 2021. Looking forward, IMARC Group expects the market to reach US\$ 153.7 Billion by 2027, exhibiting a growth rate (CAGR) of 28.35% during 2022-2027. Keeping in mind the uncertainties of COVID-19, we are continuously tracking and evaluating the direct as well as the indirect influence of the pandemic on different end use sectors. These insights are included in the report as a major market contributor.

Self-healing concrete refers to a synthetic building material capable of automatically healing the cracks and damages. It consists of a bacterium that produces limestone, which expands into a gel to fill the gaps upon coming in contact with water and air. The concrete seals the cracks to protect the steel framework from external impacts and minimizes the risks of corrosion. It is commonly available in autogenic and autonomic self-healing variants. The autogenous variants use moisture for the healing process, whereas the autonomous variants use capsules containing additional healing agents or bacteria spores. As a result, they find extensive applications in the construction of residential, commercial, industrial and civil infrastructure.

Self-Healing Concrete Market Trends:

Significant growth in the construction industry across the globe is one of the key factors creating a positive outlook for the market. Furthermore, the increasing demand for environment-friendly, reliable and durable constructions, is providing a thrust to the market growth. In line with this, the widespread adoption of vascular-based healing technologies for the construction of modern buildings is also contributing to the market growth. They involve a series or network of tubes containing self-healing concrete, which are passed through the walls to reinforce the building. Additionally, various

product innovations, such as the development of capsule-based self-healing concrete, are acting as other growth-inducing factors. These capsules are highly convenient, permeable and cost-effective for large-scale applications. Other factors, including the implementation of favorable government policies, along with extensive infrastructural developments, especially in the developing economies, are anticipated to drive the market further.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global self-healing concrete market report, along with forecasts at the global, regional and country level from 2022-2027. Our report has categorized the market based on form and application.

Breakup by Form:

- Intrinsic
- Capsule-Based
- Vascular

Breakup by Application:

- Residential
- Industrial
- Commercial

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
 - China
 - Japan
 - India
 - South Korea
- Australia
- Indonesia
- Others
- Europe

Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being BASF SE, Basilisk, CEMEX S.A.B. de C.V., GCP Applied Technologies Inc., Hycrete Inc. (Broadview Technologies Inc.), Kryton International Inc., Oscrete (Christeysn UK Ltd.), Penetron, RPM International Inc., Sika AG and Xypex Chemical Corporation.

Key Questions Answered in This Report:

How has the global self-healing concrete market performed so far and how will it perform in the coming years?
What has been the impact of COVID-19 on the global self-healing concrete market?
What are the key regional markets?
What is the breakup of the market based on the form?
What is the breakup of the market based on the application?
What are the various stages in the value chain of the industry?
What are the key driving factors and challenges in the industry?
What is the structure of the global self-healing concrete market and who are the key players?
What is the degree of competition in the industry?

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