

## **Self-Healing Concrete Market Research Report Data Analysis by Form (Intrinsic and Extrinsic), by End-use (Residential, Commercial, Industrial, Civil Infrastructure), and by Region (North America, Europe, Asia Pacific, South America, and Middle East & Africa) -Forecast Till 2027**

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### **Report description:**

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#### **Market Overview**

During the forecast period, the Self-Healing Concrete industry is anticipated to grow at a compound annual growth rate (CAGR) of 8.3%. The market for self-healing concrete is characterized by synthetically produced self-healing agents that possess the unique ability to autonomously repair damage and cracks. These products are capable of self-repairing their fractures. The Self-Healing Concrete Market is primarily driven by the accelerated development of infrastructure and the increasing urbanization. The self-healing concrete is widely used in bridges, dams, and tunnels, among other structures, where concrete, the primary construction material, is subjected to continuous stress. Consequently, the market for this concrete will experience an increase in demand as the focus shifts to the development of public infrastructure. Additionally, the growing construction of residential and commercial structures is expected to result in a significant demand for self-healing concrete, as it will reduce the cost of their maintenance. Furthermore, the self-healing concrete market will experience improved prospects as a result of the increasing emphasis on the use of eco-friendly and durable construction materials.

The global economy is exhibiting signs of a minor deceleration, and the construction industry is continuing to expand at a moderate pace. China, India, the United States, and Indonesia will account for approximately 58% of the projected global expansion. Growth will be concentrated in a small number of nations. Indonesia is anticipated to surpass Germany, the United Kingdom, and Japan to become the fourth largest construction sector by the end of the forecast period, while China is anticipated

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to become the top construction sector. India will be the third largest, surpassing Japan in the medium term. The construction sector's development is stimulated by renovation activities in North America and Europe over the short and medium term. The construction industry is primarily driven by the increasing urban population in developing regions. The sector's expansion in developing countries is influenced by a variety of factors, such as population growth, increased residential development, and anticipated investments in infrastructure and industrial development. The demand for new residential buildings and the expanding construction sector are contributing to the expansion of self-healing concrete, which provides superior quality. Therefore, it is anticipated that the demand for self-healing concrete will further increase in light of the global construction industry's long-term outlook.

#### Market segment insights

The Self-Healing Concrete Market is segmented into Intrinsic and Extrinsic based on the form.

The Self-Healing Concrete Market has been segmented into Residential, Commercial, Industrial, and Civil Infrastructure based on the end-use.

#### Regional Perspectives

The United States, Canada, and Mexico comprise North America. The United Kingdom, Germany, France, Italy, and the rest of Europe comprise Europe. China, India, Japan, and the remainder of the Asia-Pacific region comprise the Asia-Pacific region. Brazil, Argentina, and the remainder of South America comprise South America. South Africa, Saudi Arabia, the United Arab Emirates, Turkey, North Africa, and the rest of the Middle East and Africa comprise the Middle East and Africa region. In 2022, Europe held the largest market share and is anticipated to experience the highest CAGR during the forecast period. The self-healing concrete market is experiencing development due to the region's expanding production capacities and high consumption potential. There has been a surge in the demand for self-healing construction materials in the region.

In Europe, the annual cost of infrastructures, including earth retaining walls and tunnels, is approximately 5 billion EUR.

Self-healing strategies, particularly bacterial-based self-healing, are considered a promising solution to reduce the high maintenance and repair costs of concrete infrastructures. It is possible to save up to 120 million EUR annually on their maintenance.

The market for self-healing concrete in North America was second in terms of market share, and it is expected to grow at a revenue-based CAGR during the forecast period. The demand for self-healing concrete in construction operations is anticipated to be supported by the increasing number of renovations in the United States and Canada.

Asia Pacific is a profitable market for self-healing concrete. The demand for self-healing concrete in construction operations is anticipated to be supported by the rapid development of infrastructure in Thailand, Singapore, India, and China.

#### Major Players

Akzo Nobel N.V. (Netherlands), Sika AG (Switzerland), GCP Applied Technologies, Hycrete Inc., Penetron, Basilisk (Netherlands), MBCC Group, Xypex Chemical Corporation, Kryton International Inc, and RPM International are among the key players in the market.

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