

Shotcrete Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global shotcrete market size reached US\$ 8.4 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 13.3 Billion by 2028, exhibiting a growth rate (CAGR) of 7.96% during 2022-2028.

Shotcrete, or sprayed concrete, is a specialized mixture of cement and aggregate used for overhead and vertical construction applications. It is compressed and sprayed on the surface of the substrate through a sealed and pressure-resistance hose at high velocity. Shotcrete can be applied using both wet and dry mixes through manual and robotic systems. The dry mix is prepared by blending the construction materials in a specific ratio and transferring it to an air compressor through a hose or a pipe. This mix offers enhanced flexibility, durability, mechanical and compressive strength and low water permeability. The wet mix is prepared by adding water to the cement and is used to provide a decorative finish with high output capacity. Shotcrete is also mixed with silica fume, air-based admixtures, fibers and accelerators for enhanced functional properties. It is widely used for underground constructions, repairs and protective coatings.

Shotcrete Market Trends:

Significant growth in the construction industry across the globe is among the key factors creating a positive outlook for the market. Shotcrete is widely used for the development of water-retaining and free-foamed structures, shell roofs, domes, barrel vaulting, blast-proof constructions and chamber linings. Moreover, the increasing development of underground transport systems, especially in the developing economies, is anticipated to drive the market toward growth. Shotcrete aids in rock stabilization and provides arch linings and large cavity fillings for various tunneling and mining activities. In line with this, the widespread adoption of shotcrete for concrete repairs on vertical surfaces of canal walls, roads, bridges, dams and natural rock walls is also contributing to the

market growth. Other factors, including the implementation of favorable government policies promoting infrastructural development, along with the production of sustainable shotcrete materials, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global shotcrete market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on technique, application and system.

Breakup by Technique:

Wet Mix

Dry Mix

Breakup by Application:

Underground Construction

Water Retaining Structures

Protective Coatings

Repair Works

Breakup by System:

Manual System

Robotic Spraying System

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, CEMEX S.A.B. de C.V., GCP Applied Technologies Inc, HeidelbergCement AG, Holcim, LKAB Berg & Betong AB, Sika AG, The Euclid Chemical Company (RPM International Inc), The QUIKRETE Companies and U.S. Concrete.

Key Questions Answered in This Report:

How has the global shotcrete market performed so far and how will it perform in the coming years?

What has been the impact of COVID-19 on the global shotcrete market?

What are the key regional markets?

What is the breakup of the market based on the technique?

What is the breakup of the market based on the application?

What is the breakup of the market based on the system?

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 shotcrete market and who are the key players?

What is the degree of competition in the industry?

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