

Shotcrete Market Report by Technique (Wet Mix, Dry Mix), Application (Underground Construction, Water Retaining Structures, Protective Coatings, Repair Works), System (Manual System, Robotic Spraying System), and Region 2024-2032

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Report description:

The global shotcrete market size reached US\$ 9.1 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 16.9 Billion by 2032, exhibiting a growth rate (CAGR) of 6.9% during 2024-2032.

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 unground 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

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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 2024-2032. 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
 - o□United States
 - o□Canada
- Asia-Pacific
 - o□China
 - o□Japan
 - o□India
 - o□South Korea
 - o□Australia
 - o□Indonesia
 - o□Others
- Europe
 - o□Germany
 - o□France
 - o□United Kingdom
 - o□Italy
 - o□Spain
 - o□Russia
 - o□Others
- Latin America
 - o□Brazil
 - o□Mexico
 - o□Others
- Middle East and Africa

Competitive Landscape:

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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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