

# Shotcrete Market Forecasts to 2030 – Global Analysis By Process Type (Wet Mix Shotcrete and Dry Mix Shotcrete), System, Material, Equipment, Application, End User and By Geography

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## Abstracts

According to Statistics MRC, the Global Shotcrete Market is accounted for \$9.09 billion in 2024 and is expected to reach \$16.28 billion by 2030 growing at a CAGR of 10.2% during the forecast period. Shotcrete is a technique that uses compressed air to spray concrete or mortar onto a surface using a high-velocity hose. There are two varieties of it: wet-mix and dry-mix. Because of its exceptional strength, endurance, and ability to stick to intricate surfaces, shotcrete is frequently used in tunnel construction, slope stabilisation, swimming pools, retaining walls, and maintenance projects. Its structural integrity and load-bearing capability can be improved by reinforcing it with steel fibres or mesh.

Market Dynamics:

Driver:

Growing infrastructure development

Shotcrete's great strength and speed of application make it essential for large-scale constructions like subways, bridges, and tunnels as well as rapid urbanisation. The material is favoured because it may improve structural stability and shorten building time. Government expenditures on transit networks and smart cities also accelerate market expansion. Furthermore, efficiency and accuracy are increased by developments in shotcrete technology, such as robotic applications. The shotcrete industry is anticipated to increase rapidly as long as infrastructure building continues.

## Restraint:

### Material waste & rebound loss

Excessive material loss from high rebound rates necessitates more labour and raw materials. Shotcrete is less appealing for large-scale applications as a result of this inefficiency, which also affects sustainability and profitability. Project schedules are prolonged and delays result from the requirement for reapplication because of wasted material. The disposal of extra materials exacerbates waste management issues, raising environmental concerns as well. For the market to flourish, these problems must be resolved with better admixtures and application methods.

## Opportunity:

### Growing demand in emerging markets

The demand for long-lasting and reasonably priced concrete solutions is increased by increased investments in tunnels, subways, and subterranean building projects. Market expansion is aided by government programs for sustainable building and smart cities. More homes and businesses are built as a result of population increase and rising disposable incomes. Robotic shotcrete application technology advances increase quality and efficiency. All things considered, shotcrete suppliers and manufacturers have a lot of prospects in rising countries.

## Threat:

### Volatility in raw material prices

Fluctuating prices of cement, aggregates, and admixtures create uncertainty, making it difficult for manufacturers to plan budgets. High material costs lead to increased project expenses, discouraging investment in infrastructure and construction. Price instability affects supply chain management, causing delays and shortages in material availability. Contractors and end-users face challenges in cost estimation, leading to project delays or cancellations. Ultimately, unpredictable raw material prices reduce market growth and competitiveness.

## Covid-19 Impact

The COVID-19 pandemic significantly impacted the shotcrete market, disrupting supply chains, delaying construction projects, and reducing demand due to economic slowdowns. Lockdowns and labor shortages led to project postponements in sectors like infrastructure, mining, and tunneling. Additionally, fluctuating raw material prices and transportation restrictions hindered production and distribution. However, post-pandemic recovery saw increased government investments in infrastructure and underground construction, boosting market growth. The demand rebounded as economies reopened, with advancements in automation and robotic shotcrete applications enhancing efficiency and safety in construction projects worldwide.

The cementitious materials segment is expected to be the largest during the forecast period

The cementitious materials segment is expected to account for the largest market share during the forecast period by enhancing durability, strength, and adhesion in sprayed concrete applications. These materials, including Portland cement and supplementary cementitious components, improve setting time and workability, making shotcrete ideal for tunneling, mining, and infrastructure projects. Additionally, advancements in blended cement formulations enhance sustainability by lowering carbon footprints and increasing resistance to harsh environments. Growing demand for rapid construction and underground support structures further boosts the adoption of cementitious materials in the shotcrete industry.

The underground construction segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the underground construction segment is predicted to witness the highest growth rate, due to its efficiency in tunnel linings, mining, and subway projects. The method offers rapid application, reducing construction time and costs while ensuring structural stability. Increasing urbanization and infrastructure development fuel the demand for underground transportation and utility tunnels, boosting shotcrete adoption. Additionally, its superior bonding strength and durability make it ideal for reinforcing underground structures in challenging environments. Growing investments in metro rail networks, hydropower projects, and underground storage facilities further propel market expansion.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest

market share due to increasing demand in tunneling, mining, and infrastructure projects. The region benefits from advanced construction technologies, strict safety regulations, and rising urbanization. The U.S. and Canada drive market growth with major investments in underground construction, bridge rehabilitation, and water-retaining structures. Growing environmental concerns also boost demand for eco-friendly shotcrete solutions. Key players focus on innovation, strategic partnerships, and sustainability to strengthen their market position and cater to evolving industry needs.

#### Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by rapid urbanization, infrastructure expansion, and increasing underground construction activities. Countries like China, India, and Japan are investing heavily in tunnels, subways, and mining projects, boosting shotcrete demand. Technological advancements, including robotic shotcreting and eco-friendly mixes, are further propelling market expansion. The region's construction boom, coupled with government initiatives for smart cities and resilient infrastructure, enhances market potential. Additionally, growing applications in repair and maintenance of aging structures contribute to the steady rise of the shotcrete industry across Asia-Pacific.

#### Key players in the market

Some of the key players profiled in the Shotcrete Market include Sika AG, BASF SE, Cemex S.A.B. de C.V., GCP Applied Technologies, LafargeHolcim Ltd., U.S. Concrete Inc., Mapei S.P.A., Normet Group, Grupo ACS, HeidelbergCement, The Conco Companies, Schnabel Geostructural Design & Construction, Putzmeister, Schwing, Liebherr, CIFA and Shotcrete Technologies Inc.

#### Key Developments:

In April 2024, BASF and Oriental Yuhong, a leading Chinese company in the construction waterproofing industry, signed a Memorandum of Understanding (MoU) to expand and upgrade their collaboration. This partnership aims to accelerate the development and launch of solutions for the construction industry, focusing on sustainable materials and innovative products.

In May 2023, Sika completed the acquisition of MBCC Group, a global construction chemicals company. This acquisition represents Sika's largest to date and aims to enhance efficiency, performance, and sustainability in the construction industry.

**Process Types Covered:**

Wet Mix Shotcrete

Dry Mix Shotcrete

**Systems Covered:**

Robotic/Mechanized

Manual

**Materials Covered:**

Cementitious Materials

Aggregates

Admixtures

Reinforcement

Other Materials

**Equipments Covered:**

General Equipment

Auxiliary Equipment

Special Equipment

Other Equipments

**Applications Covered:**

Underground Construction

Inground Swimming Pool

Water Retaining Structure

Protective Coating

Repair Works

Other Applications

**End Users Covered:**

Mining

Construction & Infrastructure

Oil & Gas

Energy & Power

Marine

Other End Users

**Regions Covered:**

North America

US

Canada

Mexico

## Europe

Germany

UK

Italy

France

Spain

Rest of Europe

## Asia Pacific

Japan

China

India

Australia

New Zealand

South Korea

Rest of Asia Pacific

## South America

Argentina

Brazil

Chile

Rest of South America

Middle East & Africa

Saudi Arabia

UAE

Qatar

South Africa

Rest of Middle East & Africa

What our report offers:

- Market share assessments for the regional and country-level segments
- Strategic recommendations for the new entrants
- Covers Market data for the years 2022, 2023, 2024, 2026, and 2030
- Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)
- Strategic recommendations in key business segments based on the market estimations
- Competitive landscaping mapping the key common trends
- Company profiling with detailed strategies, financials, and recent developments
- Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

### Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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