

# **Concrete Admixtures Market Report by Product (Water Reducing Admixtures, Waterproofing Admixtures, Accelerating Admixtures, Air-Entraining Admixtures, Retarding Admixtures, and Others), End User (Residential, Commercial, Infrastructure), and Region 2024-2032**

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## **Abstracts**

The global concrete admixtures market size reached US\$ 17.9 Billion in 2023. Looking forward, IMARC Group expects the market to reach US\$ 40.8 Billion by 2032, exhibiting a CAGR of 9.4% during 2024-2032. The growing focus on sustainable construction practices, rising renovation and infrastructure development activities, and integration of digital technologies to enable more precise dosing and quality control are some of the major factors propelling the market.

Concrete admixtures are specialized chemical or mineral additives used in the construction industry to enhance the performance and properties of concrete. They are carefully formulated to achieve specific objectives in concrete mixtures, such as improved workability, durability, strength, and setting time. They are widely available as water reducers, plasticizers, accelerators, retarders, air-entraining agents, and superplasticizers. They assist in introducing microscopic air bubbles into the mixture to enhance freeze-thaw resistance. As they aid in improving the flow of concrete without increasing water content, the demand for concrete admixtures is increasing worldwide.

At present, the rising demand for high-performance concrete among various sectors is supporting the growth of the market. Besides this, the increasing adoption of concrete admixtures, as they can reduce construction costs by improving workability and reducing water content, is strengthening the growth of the market. Additionally, the

growing demand for these admixtures to extend the lifespan of infrastructures is positively influencing the market. Apart from this, the increasing employment of these admixtures to enhance the resilience of structures against natural disasters like earthquakes and hurricanes is offering lucrative growth opportunities to industry investors. Furthermore, governing agencies of various countries are promoting infrastructure development across the globe. In line with this, the increasing focus on reducing carbon footprint is propelling the growth of the market.

#### Concrete Admixtures Market Trends/Drivers:

##### Rising renovation and infrastructure development activities

The rising popularity of residential renovation among individuals, along with the increasing number of infrastructure development projects, are contributing to the growth of the market. In addition, there is an increase in the demand for new infrastructure, such as roads, bridges, high-rise buildings, and residential complexes due to rapid urbanization. Besides this, concrete is a fundamental building material, and admixtures are essential to improve its performance and longevity. These allow construction professionals to optimize concrete mixes for specific applications and ensure that structures meet safety, durability, and sustainability requirements. Furthermore, these admixtures assist in facilitating faster construction schedules, which is offering a positive market outlook.

##### Increasing focus on sustainable construction

The rising focus on sustainable construction practices to reduce environmental footprint is supporting the growth of the market. In line with this, governing agencies of several countries are encouraging the adoption of environmentally friendly and resource-efficient building practices, which is offering a favorable market outlook. Apart from this, concrete admixtures play a crucial role in achieving sustainability goals. Moreover, there is an increase in the demand for admixtures that reduce water usage, such as water reducers and high-range water reducers. Additionally, architects and builders are increasingly adopting admixtures that improve concrete durability and provide longer-lasting structures that reduce the need for frequent repairs and replacements.

##### Integration of digital technologies in admixtures to enable more precise dosing

Key players are creating innovative admixture products with enhanced properties and capabilities. In line with this, the rising utilization of nanotechnology in admixtures to improve the strength, durability, and workability of concrete is contributing to the growth

of the market. Apart from this, they are developing self-healing concrete, which uses admixtures to repair cracks autonomously. In addition, the integration of digital technologies, such as artificial intelligence (AI) and data analytics, enables more precise dosing, quality control, and performance monitoring during construction projects that provide more efficient and reliable concrete structures is strengthening the growth of the market. Furthermore, there is a rise in the demand for higher-performing materials.

#### Concrete Admixtures Industry Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market report, along with forecasts at the global, regional and country levels from 2024-2032. Our report has categorized the market based on product and end user.

#### Breakup by Product:

Water Reducing Admixtures

Plasticizers

Superplasticizers

Waterproofing Admixtures

Accelerating Admixtures

Air-Entraining Admixtures

Retarding Admixtures

Others

Water reducing admixtures represents the largest market segment

The report has provided a detailed breakup and analysis of the market based on the product. This includes water reducing admixtures (plasticizers and superplasticizers), waterproofing admixtures, accelerating admixtures, air-entraining admixtures, retarding admixtures, and others. According to the report, water reducing admixtures represented the largest segment.

Water reducing admixtures, also known as water reducers or plasticizers, are designed to reduce the water content needed in a concrete mix while maintaining its workability and desired consistency. They achieve this by dispersing cement particles more effectively, resulting in improved hydration and a reduction in water-cement ratio. In addition, water reducing admixtures enhance the workability of concrete, which makes it easier to pour, place, and finish. This is especially valuable in large-scale construction projects where time and labor efficiency are critical. Furthermore, they assist in aligning with sustainable construction practices by reducing water consumption and the carbon

footprint associated with concrete production.

#### Breakup by End User:

Residential  
Commercial  
Infrastructure

Residential accounts for the majority of the market share

The report has provided a detailed breakup and analysis of the market based on the end user. This includes residential, commercial, and infrastructure. According to the report, residential represented the largest segment.

The residential sector comprises all types of housing construction, from single-family homes to multi-unit dwellings and apartment complexes. Admixtures play a vital role in ensuring the quality and longevity of residential structures. They enable the production of high-performance concrete for foundations, driveways, and structural elements, to ensure durability and resistance to weathering. Additionally, admixtures improve workability, which makes it easier for contractors to handle concrete during pouring and finishing. Moreover, the rising focus on environmentally friendly construction is bolstering the growth of the market.

#### 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

Asia Pacific exhibits a clear dominance, accounting for the largest concrete admixtures market share

The market research report has also provided a comprehensive analysis of all the major regional markets, which include North America (the United States and Canada); Asia Pacific (China, Japan, India, South Korea, Australia, Indonesia, and others); Europe (Germany, France, the United Kingdom, Italy, Spain, Russia, and others); Latin America (Brazil, Mexico, and others); and the Middle East and Africa. According to the report, Asia Pacific accounted for the largest market share.

Asia Pacific held the biggest market share due to the increasing demand for concrete in various construction projects. In addition, the rising need to enhance the performance and efficiency of concrete is strengthening the growth of the market in the region. Besides this, the growing focus on modern construction techniques and sustainability practices is offering a positive market outlook. In line with this, the increasing preference for constructing durable and eco-friendly structures is supporting the growth of the market in the Asia Pacific region.

#### Competitive Landscape:

Various players are investing in research and development (R&D) activities to develop innovative admixture formulations. This includes creating products that offer enhanced performance, improved sustainability, and compatibility with a wide range of concrete mixes. In addition, major manufacturers are expanding their product portfolios to cater to various market segments, such as the development of specialized admixtures for self-healing concrete, high-performance concrete, and sustainable construction. Apart from this, they are producing products that reduce water usage, lower carbon emissions, and incorporate recycled or bio-based materials. Furthermore, key companies are offering tailored solutions and are working closely with construction projects to formulate

concrete mixes that meet specific performance and environmental requirements.

The report has provided a comprehensive analysis of the competitive landscape in the market. Detailed profiles of all major companies have also been provided. Some of the key players in the market include:

BASF SE

CAC Admixtures

CEMEX S.A.B. de C.V.

CICO Group

Fosroc Inc. (JMH Group)

Fritz-Pak Corporation

GCP Applied Technologies Inc. (Compagnie de Saint-Gobain S.A.)

Mapei S.p.A.

Pidilite Industries Limited

Rhein-Chemotechnik GmbH

RPM International Inc.

Sika AG

Recent Developments:

In April 2022, Pidilite Industries Limited, a leading manufacturer of adhesives, sealants and construction chemicals, partnered with GCP Applied Technologies Inc, a global leader in construction products, to offer high-performance waterproofing solutions for challenging sites that have exposure to high temperature variation and water table, under its brand Dr.Fixit.

In 2021, Sika partnered with Swiss Federal Institute of Technology Lausanne to develop concrete admixtures leveraging the limestone calcined clay cement (LC3) technology that lowers CO2 emissions. The technology aims to facilitate the production of performant and sustainable cement with less clinker.

In 2023, CEMEX, S.A.B. de C.V. launched a new range of bio-sourced admixtures designed for a reduced carbon footprint. These admixtures use natural, renewable, and locally sourced raw materials and may achieve a carbon footprint up to 70% lower than traditional oil-based admixtures.

Key Questions Answered in This Report:

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

What are the drivers, restraints, and opportunities in the global concrete admixtures market?

What is the impact of each driver, restraint, and opportunity on the global concrete

admixtures market?

What are the key regional markets?

Which countries represent the most attractive concrete admixtures market?

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

Which is the most attractive product in the concrete admixtures market?

What is the breakup of the market based on the end user?

Which is the most attractive end user in the concrete admixtures market?

What is the competitive structure of the global concrete admixtures market?

Who are the key players/companies in the global concrete admixtures market?

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