

# **Water Resistant Concrete Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Type (Crystalline Concrete, Plasticizing Concrete, Waterproofing Admixture Concrete), By Structure (Dams and Water Tanks, Tunnels and Underground Structures, Marine Structures, Sewage and Water Treatment Plants, Commercial Buildings, Residential Buildings), By End-Use Industry (Infrastructure, Commercial Construction, Residential Construction, Industrial Construction), By Region & Competition, 2020-2030F**

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## **Abstracts**

### **Market Overview**

Global Water Resistant Concrete Market was valued at USD 2.15 billion in 2024 and is expected to reach USD 3.48 billion by 2030 with a CAGR of 8.18% during the forecast period.

The Water Resistant Concrete Market refers to the segment of the construction materials industry focused on the production and application of concrete that offers enhanced resistance to water penetration. This specialized concrete is formulated with advanced additives or admixtures, such as crystalline compounds or waterproofing agents, that reduce permeability and increase durability in structures exposed to moisture, humidity, and water pressure. Water resistant concrete is widely used in applications such as dams, tunnels, basements, marine structures, sewage treatment

facilities, and high-rise buildings. Its primary function is to prevent water ingress that could lead to corrosion of reinforcement steel, structural degradation, and mold formation, thereby extending the lifespan of concrete structures and reducing long-term maintenance costs.

The Water Resistant Concrete Market is expected to rise steadily in the coming years, driven by several interrelated factors. Rapid urbanization and infrastructure development across emerging economies are creating substantial demand for long-lasting and resilient construction materials. Governments are increasingly investing in water infrastructure, transportation tunnels, underground metros, and marine ports, all of which require water resistant concrete to ensure structural safety and integrity. In addition, climate change and extreme weather conditions have heightened awareness about the need for durable building solutions that can withstand prolonged exposure to water and moisture. This is particularly relevant in flood-prone regions and coastal areas where water damage poses a constant threat to construction projects.

## **Key Market Drivers**

### **Increasing Urbanization and Infrastructure Development**

The rapid pace of urbanization and infrastructure development globally is a significant driver for the water resistant concrete market. As cities expand and populations migrate to urban centers, the demand for robust, durable construction materials intensifies. Water resistant concrete, known for its ability to withstand moisture infiltration, is critical for constructing resilient infrastructure such as bridges, tunnels, basements, and high-rise buildings. Governments and private sectors are investing heavily in infrastructure projects to accommodate growing urban populations, particularly in emerging economies.

This material's ability to reduce maintenance costs and extend the lifespan of structures makes it a preferred choice for large-scale projects. Water resistant concrete's properties, such as low permeability and enhanced durability, ensure that structures remain intact despite exposure to harsh environmental conditions like heavy rainfall or flooding. The global push for smart cities and sustainable urban planning further amplifies the need for advanced construction materials that can support long-term infrastructure goals. Additionally, the rise in public-private partnerships for infrastructure projects underscores the importance of using high-performance materials like water resistant concrete to meet stringent quality and safety standards.

In 2023, the United Nations estimated that 56% of the global population lived in urban areas, projected to increase to 68% by 2050. This urbanization trend is expected to drive a 40% rise in global construction spending by 2030, with approximately 15% of projects requiring water resistant concrete for durability in moisture-prone environments, according to industry reports from the World Bank.

## **Key Market Challenges**

### High Material Costs and Limited Affordability

One of the most pressing challenges in the Water Resistant Concrete Market is the high cost associated with the raw materials and specialized additives used to manufacture water-resistant concrete. Compared to conventional concrete, water-resistant variants require proprietary admixtures such as crystalline waterproofing agents, hydrophobic chemicals, and plasticizers that significantly increase production expenses.

These components are often sourced from specialized suppliers, which leads to higher procurement costs. Additionally, the production process may require advanced mixing technologies and strict quality control measures, which further adds to the operational expenditures. For contractors and developers operating within tight budget constraints, particularly in emerging economies, the higher initial investment in water-resistant concrete may deter widespread adoption. Even though the long-term cost benefits of durability and reduced maintenance are evident, many decision-makers in the construction value chain continue to prioritize immediate cost savings over life-cycle performance.

The problem becomes more acute in public infrastructure projects where budget allocations are often fixed and influenced by political and regulatory considerations. Moreover, the lack of standardized pricing across regions adds to market complexity, making it difficult for buyers to assess cost-effectiveness. Small- and medium-sized contractors may also lack access to bulk procurement channels, thereby limiting their ability to negotiate favorable terms for high-quality water-resistant products.

## **Key Market Trends**

### Integration of Self-Healing Concrete Technologies

A prominent trend reshaping the Water Resistant Concrete Market is the growing integration of self-healing concrete technologies. This advanced innovation involves

concrete formulations embedded with specific agents—such as bacteria, microcapsules, or chemical compounds—that activate upon contact with water or air when cracks begin to form. These agents initiate an automatic healing process by sealing micro-cracks, thereby maintaining the structural integrity and water resistance of the concrete over time. The adoption of this technology addresses a long-standing challenge in construction: the gradual deterioration of waterproofing performance due to aging, thermal expansion, and physical stress. By enabling structures to self-repair and prevent water ingress without the need for external maintenance, self-healing concrete significantly enhances long-term durability and reduces lifecycle maintenance costs.

The rising demand for sustainable infrastructure is accelerating the commercial viability of this innovation. Governments and private developers are increasingly inclined toward adopting materials that can contribute to low-maintenance, high-performance construction. As a result, self-healing concrete is gaining traction in the construction of tunnels, bridges, marine structures, and water treatment facilities—sectors where exposure to moisture and high-pressure conditions is common. Furthermore, the integration of self-healing technology aligns with evolving green building standards and environmental regulations, adding additional incentive for adoption. Ongoing research and development in material science is also improving the affordability and scalability of these technologies, making them more accessible to mid-scale infrastructure projects.

While still in the early stages of commercial deployment, self-healing water-resistant concrete is gradually moving from laboratory prototypes to real-world applications. Several pilot projects across Europe and Asia have already demonstrated its effectiveness, prompting interest from construction firms, policymakers, and investors. As testing protocols become standardized and product certifications are introduced, the integration of self-healing capabilities into water-resistant concrete is expected to become a mainstream practice. This trend holds transformative potential to redefine maintenance practices, extend asset lifespans, and significantly elevate the value proposition of water-resistant concrete solutions across global construction sectors.

## **Key Market Players**

Sika AG

BASF SE

Fosroc International Ltd

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

Mapei S.p.A.

GCP Applied Technologies Inc.

CHRYSO SAS

W. R. Grace & Co.

Pidilite Industries Limited

The Euclid Chemical Company

### **Report Scope:**

In this report, the Global Water Resistant Concrete Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Water Resistant Concrete Market, By Type:

Crystalline Concrete

Plasticizing Concrete

Waterproofing Admixture Concrete

Water Resistant Concrete Market, By Structure :

Dams and Water Tanks

Tunnels and Underground Structures

Marine Structures

Sewage and Water Treatment Plants

Commercial Buildings

Residential Buildings

Water Resistant Concrete Market, By End-Use Industry:

Infrastructure

Commercial Construction

Residential Construction

Industrial Construction

Water Resistant Concrete Market, By Region:

North America

United States

Canada

Mexico

Europe

Germany

France

United Kingdom

Italy

Spain

South America

Brazil

Argentina

Colombia

Asia-Pacific

China

India

Japan

South Korea

Australia

Middle East & Africa

Saudi Arabia

UAE

South Africa

## **Competitive Landscape**

Company Profiles: Detailed analysis of the major companies present in the Global Water Resistant Concrete Market.

## **Available Customizations:**

Global Water Resistant Concrete Market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## **Company Information**

Detailed analysis and profiling of additional market players (up to five).

## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, and Trends

### **4. VOICE OF CUSTOMER**

### **5. GLOBAL WATER RESISTANT CONCRETE MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value
- 5.2. Market Share & Forecast
  - 5.2.1. By Type (Crystalline Concrete, Plasticizing Concrete, Waterproofing Admixture Concrete)
  - 5.2.2. By Structure (Dams and Water Tanks, Tunnels and Underground Structures, Marine Structures, Sewage and Water Treatment Plants, Commercial Buildings,

Residential Buildings)

5.2.3. By End-Use Industry (Infrastructure, Commercial Construction, Residential Construction, Industrial Construction)

5.2.4. By Region (North America, Europe, South America, Middle East & Africa, Asia Pacific)

5.3. By Company (2024)

5.4. Market Map

## **6. NORTH AMERICA WATER RESISTANT CONCRETE MARKET OUTLOOK**

6.1. Market Size & Forecast

6.1.1. By Value

6.2. Market Share & Forecast

6.2.1. By Type

6.2.2. By Structure

6.2.3. By End-Use Industry

6.2.4. By Country

6.3. North America: Country Analysis

6.3.1. United States Water Resistant Concrete Market Outlook

6.3.1.1. Market Size & Forecast

6.3.1.1.1. By Value

6.3.1.2. Market Share & Forecast

6.3.1.2.1. By Type

6.3.1.2.2. By Structure

6.3.1.2.3. By End-Use Industry

6.3.2. Canada Water Resistant Concrete Market Outlook

6.3.2.1. Market Size & Forecast

6.3.2.1.1. By Value

6.3.2.2. Market Share & Forecast

6.3.2.2.1. By Type

6.3.2.2.2. By Structure

6.3.2.2.3. By End-Use Industry

6.3.3. Mexico Water Resistant Concrete Market Outlook

6.3.3.1. Market Size & Forecast

6.3.3.1.1. By Value

6.3.3.2. Market Share & Forecast

6.3.3.2.1. By Type

6.3.3.2.2. By Structure

6.3.3.2.3. By End-Use Industry

## 7. EUROPE WATER RESISTANT CONCRETE MARKET OUTLOOK

### 7.1. Market Size & Forecast

#### 7.1.1. By Value

### 7.2. Market Share & Forecast

#### 7.2.1. By Type

#### 7.2.2. By Structure

#### 7.2.3. By End-Use Industry

#### 7.2.4. By Country

### 7.3. Europe: Country Analysis

#### 7.3.1. Germany Water Resistant Concrete Market Outlook

##### 7.3.1.1. Market Size & Forecast

###### 7.3.1.1.1. By Value

##### 7.3.1.2. Market Share & Forecast

###### 7.3.1.2.1. By Type

###### 7.3.1.2.2. By Structure

###### 7.3.1.2.3. By End-Use Industry

#### 7.3.2. France Water Resistant Concrete Market Outlook

##### 7.3.2.1. Market Size & Forecast

###### 7.3.2.1.1. By Value

##### 7.3.2.2. Market Share & Forecast

###### 7.3.2.2.1. By Type

###### 7.3.2.2.2. By Structure

###### 7.3.2.2.3. By End-Use Industry

#### 7.3.3. United Kingdom Water Resistant Concrete Market Outlook

##### 7.3.3.1. Market Size & Forecast

###### 7.3.3.1.1. By Value

##### 7.3.3.2. Market Share & Forecast

###### 7.3.3.2.1. By Type

###### 7.3.3.2.2. By Structure

###### 7.3.3.2.3. By End-Use Industry

#### 7.3.4. Italy Water Resistant Concrete Market Outlook

##### 7.3.4.1. Market Size & Forecast

###### 7.3.4.1.1. By Value

##### 7.3.4.2. Market Share & Forecast

###### 7.3.4.2.1. By Type

###### 7.3.4.2.2. By Structure

###### 7.3.4.2.3. By End-Use Industry

### 7.3.5. Spain Water Resistant Concrete Market Outlook

#### 7.3.5.1. Market Size & Forecast

##### 7.3.5.1.1. By Value

#### 7.3.5.2. Market Share & Forecast

##### 7.3.5.2.1. By Type

##### 7.3.5.2.2. By Structure

##### 7.3.5.2.3. By End-Use Industry

## **8. ASIA PACIFIC WATER RESISTANT CONCRETE MARKET OUTLOOK**

### 8.1. Market Size & Forecast

#### 8.1.1. By Value

### 8.2. Market Share & Forecast

#### 8.2.1. By Type

#### 8.2.2. By Structure

#### 8.2.3. By End-Use Industry

#### 8.2.4. By Country

### 8.3. Asia Pacific: Country Analysis

#### 8.3.1. China Water Resistant Concrete Market Outlook

##### 8.3.1.1. Market Size & Forecast

###### 8.3.1.1.1. By Value

##### 8.3.1.2. Market Share & Forecast

###### 8.3.1.2.1. By Type

###### 8.3.1.2.2. By Structure

###### 8.3.1.2.3. By End-Use Industry

#### 8.3.2. India Water Resistant Concrete Market Outlook

##### 8.3.2.1. Market Size & Forecast

###### 8.3.2.1.1. By Value

##### 8.3.2.2. Market Share & Forecast

###### 8.3.2.2.1. By Type

###### 8.3.2.2.2. By Structure

###### 8.3.2.2.3. By End-Use Industry

#### 8.3.3. Japan Water Resistant Concrete Market Outlook

##### 8.3.3.1. Market Size & Forecast

###### 8.3.3.1.1. By Value

##### 8.3.3.2. Market Share & Forecast

###### 8.3.3.2.1. By Type

###### 8.3.3.2.2. By Structure

###### 8.3.3.2.3. By End-Use Industry

#### 8.3.4. South Korea Water Resistant Concrete Market Outlook

##### 8.3.4.1. Market Size & Forecast

###### 8.3.4.1.1. By Value

##### 8.3.4.2. Market Share & Forecast

###### 8.3.4.2.1. By Type

###### 8.3.4.2.2. By Structure

###### 8.3.4.2.3. By End-Use Industry

#### 8.3.5. Australia Water Resistant Concrete Market Outlook

##### 8.3.5.1. Market Size & Forecast

###### 8.3.5.1.1. By Value

##### 8.3.5.2. Market Share & Forecast

###### 8.3.5.2.1. By Type

###### 8.3.5.2.2. By Structure

###### 8.3.5.2.3. By End-Use Industry

### **9. MIDDLE EAST & AFRICA WATER RESISTANT CONCRETE MARKET OUTLOOK**

#### 9.1. Market Size & Forecast

##### 9.1.1. By Value

#### 9.2. Market Share & Forecast

##### 9.2.1. By Type

##### 9.2.2. By Structure

##### 9.2.3. By End-Use Industry

##### 9.2.4. By Country

#### 9.3. Middle East & Africa: Country Analysis

##### 9.3.1. Saudi Arabia Water Resistant Concrete Market Outlook

###### 9.3.1.1. Market Size & Forecast

###### 9.3.1.1.1. By Value

###### 9.3.1.2. Market Share & Forecast

###### 9.3.1.2.1. By Type

###### 9.3.1.2.2. By Structure

###### 9.3.1.2.3. By End-Use Industry

##### 9.3.2. UAE Water Resistant Concrete Market Outlook

###### 9.3.2.1. Market Size & Forecast

###### 9.3.2.1.1. By Value

###### 9.3.2.2. Market Share & Forecast

###### 9.3.2.2.1. By Type

###### 9.3.2.2.2. By Structure

###### 9.3.2.2.3. By End-Use Industry

### 9.3.3. South Africa Water Resistant Concrete Market Outlook

#### 9.3.3.1. Market Size & Forecast

##### 9.3.3.1.1. By Value

#### 9.3.3.2. Market Share & Forecast

##### 9.3.3.2.1. By Type

##### 9.3.3.2.2. By Structure

##### 9.3.3.2.3. By End-Use Industry

## **10. SOUTH AMERICA WATER RESISTANT CONCRETE MARKET OUTLOOK**

### 10.1. Market Size & Forecast

#### 10.1.1. By Value

### 10.2. Market Share & Forecast

#### 10.2.1. By Type

#### 10.2.2. By Structure

#### 10.2.3. By End-Use Industry

#### 10.2.4. By Country

### 10.3. South America: Country Analysis

#### 10.3.1. Brazil Water Resistant Concrete Market Outlook

##### 10.3.1.1. Market Size & Forecast

###### 10.3.1.1.1. By Value

##### 10.3.1.2. Market Share & Forecast

###### 10.3.1.2.1. By Type

###### 10.3.1.2.2. By Structure

###### 10.3.1.2.3. By End-Use Industry

#### 10.3.2. Colombia Water Resistant Concrete Market Outlook

##### 10.3.2.1. Market Size & Forecast

###### 10.3.2.1.1. By Value

##### 10.3.2.2. Market Share & Forecast

###### 10.3.2.2.1. By Type

###### 10.3.2.2.2. By Structure

###### 10.3.2.2.3. By End-Use Industry

#### 10.3.3. Argentina Water Resistant Concrete Market Outlook

##### 10.3.3.1. Market Size & Forecast

###### 10.3.3.1.1. By Value

##### 10.3.3.2. Market Share & Forecast

###### 10.3.3.2.1. By Type

###### 10.3.3.2.2. By Structure

###### 10.3.3.2.3. By End-Use Industry

## **11. MARKET DYNAMICS**

- 11.1. Drivers
- 11.2. Challenges

## **12. MARKET TRENDS AND DEVELOPMENTS**

- 12.1. Merger & Acquisition (If Any)
- 12.2. Product Launches (If Any)
- 12.3. Recent Developments

## **13. COMPANY PROFILES**

- 13.1. Sika AG
  - 13.1.1. Business Overview
  - 13.1.2. Key Revenue and Financials
  - 13.1.3. Recent Developments
  - 13.1.4. Key Personnel
  - 13.1.5. Key Product/Services Offered
- 13.2. BASF SE
- 13.3. Fosroc International Ltd
- 13.4. CEMEX S.A.B. de C.V.
- 13.5. Mapei S.p.A.
- 13.6. GCP Applied Technologies Inc.
- 13.7. CHRYSO SAS
- 13.8. W. R. Grace & Co.
- 13.9. Pidilite Industries Limited
- 13.10. The Euclid Chemical Company

## **14. STRATEGIC RECOMMENDATIONS**

## **15. ABOUT US & DISCLAIMER**

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