

# **Global Asphalt Additives Market Size Study, by Type (Anti-Strip & Adhesion Promoters, Chemical Modifiers, Colored Asphalt, Emulsifiers, Fibers, Flux Oil, Polymeric Modifiers, Rejuvenators), by Technology (Cold Mix, Hot Mix, Warm Mix), by Application (Airport Construction, Road Construction & Paving, Roofing) and Regional Forecasts 2022-2032**

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## **Abstracts**

The Global Asphalt Additives Market is valued approximately at USD 4.76 billion in 2023 and is anticipated to grow with a healthy growth rate of more than 6.14% over the forecast period 2024-2032. Asphalt additives are pivotal components integrated into the asphalt itself or applied during the asphalt mixing process, aimed at improving the performance characteristics and durability of asphalt pavements. These additives range from polymers and anti-strip agents to fibers and rejuvenators, each designed to enhance the asphalt's resistance to factors such as temperature variations, water-induced damage, and heavy traffic loads. The escalating demand for asphalt additives is significantly attributed to the global surge in road construction and maintenance activities and the stringent regulatory emphasis on sustainable infrastructure development. This has led to a paradigm shift toward eco-friendly and energy-efficient materials, consequently propelling the use of innovative asphalt additive solutions. Thus, market players focus on developing cost-effective, easily-integrable, high-performance additives to address these restraints. Moreover, recycling and rejuvenation additives present a promising avenue, enabling more sustainable practices and cost reductions. Increasing investments in smart highways and the rising demand for eco-friendly construction materials can pose opportunities for improving the use of asphalt additives. Advances in nanotechnology and bio-based additives are also set to redefine the efficiency and sustainability of asphalt pavements, paving the way for enhanced

road durability and performance.

The market dynamics are characterized by the exponential use of polymeric modifiers due to their high mechanical strength and durability. These include elastomers and plastomers, improving the elasticity, flexibility, and resistance to rutting and cracking of asphalt pavements. Anti-strip & adhesion promoters improve bonding between asphalt and aggregates, reducing stripping and enhancing durability, especially in regions prone to water-induced damage. Chemical modifiers enhance rheological properties and thermal stability, making them suitable for high-temperature regions and heavy-traffic pavements. Coloured asphalt additives provide aesthetic value to pavements, enhancing safety and delineation. Emulsifiers help mix asphalt with water, creating a sprayable or spreadable form for cold mix applications and maintenance work. Fibers enhance the mechanical properties of asphalt, providing increased strength, stability, and resistance to deformation, ideal for heavy-duty pavements. Flux oils lower the viscosity of asphalt, improving workability and allowing lower temperature applications. Rejuvenators restore aged asphalt, improve its durability, and recycle reclaimed asphalt pavement (RAP). However, raw material prices are volatile, and the complex integration process of additives into existing asphalt mix formulations forms challenges for the widespread development and use of some asphalt additives.

Geographically, the market analysis covers key regions including North America, Europe, Asia Pacific, Latin America, and the Rest of the World. The North America leads the market driven by large-scale infrastructure projects and a focus on sustainable road construction practices. The Asia Pacific region presents a rapidly growing market for asphalt additives, fuelled by significant investments in road infrastructure and urban development in countries such as China, India, Japan, and South Korea. The Europe region emphasizes quality and environmental sustainability, with European countries adopting strict environmental standards that influence the types of asphalt additives produced and used.

Major market players included in this report are:

Arkema S.A.

BASF SE

Cargill, Incorporated

Chase Corp.

Colorbiotics by Sika AG

Dorf Ketal Chemicals (I) Pvt. Ltd.

EP Bitumen

Evonik Industries AG

GreenMantra Technologies

Hangzhou Epsilon Chemical Co., Ltd.

Honeywell International Inc.

Huntsman Corporation

Ingevity Corporation

Iterchimica S.p.A.

J. Rettenmaier & Söhne GmbH + Co KG

The detailed segments and sub-segment of the market are explained below:

By Type:

Anti-Strip & Adhesion Promoters

Chemical Modifiers

Colored Asphalt

Emulsifiers

Fibers

Flux Oil

Polymeric Modifiers

Rejuvenators

By Technology:

Cold Mix

Hot Mix

Warm Mix

By Application:

Airport Construction

Road Construction & Paving

Roofing

By Region:

North America:

U.S.

Canada

Europe:

UK

Germany

France

Spain

Italy

ROE

Asia Pacific:

China

India

Japan

Australia

South Korea

RoAPAC

Latin America:

Brazil

Mexico

Middle East & Africa:

Saudi Arabia

South Africa

RoMEA

Years considered for the study are as follows:

Historical year – 2022

Base year – 2023

Forecast period – 2024 to 2032

## Key Takeaways:

Market Estimates & Forecast for 10 years from 2022 to 2032.

Annualized revenues and regional level analysis for each market segment.

Detailed analysis of geographical landscape with Country level analysis of major regions.

Competitive landscape with information on major players in the market.

Analysis of key business strategies and recommendations on future market approach.

Analysis of competitive structure of the market.

Demand side and supply side analysis of the market.

## Contents

### **CHAPTER 1. GLOBAL ASPHALT ADDITIVES MARKET EXECUTIVE SUMMARY**

- 1.1. Global Asphalt Additives Market Size & Forecast (2022- 2032)
- 1.2. Regional Summary
- 1.3. Segmental Summary
  - 1.3.1. By Type
  - 1.3.2. By Technology
  - 1.3.3. By Application
- 1.4. Key Trends
- 1.5. Recession Impact
- 1.6. Analyst Recommendation & Conclusion

### **CHAPTER 2. GLOBAL ASPHALT ADDITIVES MARKET DEFINITION AND RESEARCH ASSUMPTIONS**

- 2.1. Research Objective
- 2.2. Market Definition
- 2.3. Research Assumptions
  - 2.3.1. Inclusion & Exclusion
  - 2.3.2. Limitations
  - 2.3.3. Supply Side Analysis
    - 2.3.3.1. Availability
    - 2.3.3.2. Infrastructure
    - 2.3.3.3. Regulatory Environment
    - 2.3.3.4. Market Competition
    - 2.3.3.5. Economic Viability (Consumer's Perspective)
  - 2.3.4. Demand Side Analysis
    - 2.3.4.1. Regulatory frameworks
    - 2.3.4.2. Technological Advancements
    - 2.3.4.3. Environmental Considerations
    - 2.3.4.4. Consumer Awareness & Acceptance
- 2.4. Estimation Methodology
- 2.5. Years Considered for the Study
- 2.6. Currency Conversion Rates

### **CHAPTER 3. GLOBAL ASPHALT ADDITIVES MARKET DYNAMICS**

### 3.1. Market Drivers

- 3.1.1. Surge in Road Construction and Maintenance Activities
- 3.1.2. Emphasis on Sustainable Infrastructure Development

### 3.2. Market Challenges

- 3.2.1. Volatile Raw Material Prices
- 3.2.2. Complex Integration Process of Additives

### 3.3. Market Opportunities

- 3.3.1. Advances in Nanotechnology and Bio-Based Additives
- 3.3.2. Rising Investments in Smart Highways and Eco-Friendly Construction

## **CHAPTER 4. GLOBAL ASPHALT ADDITIVES MARKET INDUSTRY ANALYSIS**

### 4.1. Porter's 5 Force Model

- 4.1.1. Bargaining Power of Suppliers
- 4.1.2. Bargaining Power of Buyers
- 4.1.3. Threat of New Entrants
- 4.1.4. Threat of Substitutes
- 4.1.5. Competitive Rivalry
- 4.1.6. Futuristic Approach to Porter's 5 Force Model
- 4.1.7. Porter's 5 Force Impact Analysis

### 4.2. PESTEL Analysis

- 4.2.1. Political
- 4.2.2. Economical
- 4.2.3. Social
- 4.2.4. Technological
- 4.2.5. Environmental
- 4.2.6. Legal

### 4.3. Top investment opportunity

### 4.4. Top winning strategies

### 4.5. Disruptive Trends

### 4.6. Industry Expert Perspective

### 4.7. Analyst Recommendation & Conclusion

## **CHAPTER 5. GLOBAL ASPHALT ADDITIVES MARKET SIZE & FORECASTS BY TYPE 2022-2032**

### 5.1. Segment Dashboard

### 5.2. Global Asphalt Additives Market: Type Revenue Trend Analysis, 2022 & 2032 (USD Billion)



- 5.2.1. Anti-Strip & Adhesion Promoters
- 5.2.2. Chemical Modifiers
- 5.2.3. Colored Asphalt
- 5.2.4. Emulsifiers
- 5.2.5. Fibers
- 5.2.6. Flux Oil
- 5.2.7. Polymeric Modifiers
- 5.2.8. Rejuvenators

## **CHAPTER 6. GLOBAL ASPHALT ADDITIVES MARKET SIZE & FORECASTS BY TECHNOLOGY 2022-2032**

- 6.1. Segment Dashboard
- 6.2. Global Asphalt Additives Market: Technology Revenue Trend Analysis, 2022 & 2032 (USD Billion)
  - 6.2.1. Cold Mix
  - 6.2.2. Hot Mix
  - 6.2.3. Warm Mix

## **CHAPTER 7. GLOBAL ASPHALT ADDITIVES MARKET SIZE & FORECASTS BY APPLICATION 2022-2032**

- 7.1. Segment Dashboard
- 7.2. Global Asphalt Additives Market: Application Revenue Trend Analysis, 2022 & 2032 (USD Billion)
  - 7.2.1. Airport Construction
  - 7.2.2. Road Construction & Paving
  - 7.2.3. Roofing

## **CHAPTER 8. GLOBAL ASPHALT ADDITIVES MARKET SIZE & FORECASTS BY REGION 2022-2032**

- 8.1. North America Asphalt Additives Market
  - 8.1.1. U.S. Asphalt Additives Market
    - 8.1.1.1. Type breakdown size & forecasts, 2022-2032
    - 8.1.1.2. Technology breakdown size & forecasts, 2022-2032
    - 8.1.1.3. Application breakdown size & forecasts, 2022-2032
  - 8.1.2. Canada Asphalt Additives Market
    - 8.1.2.1. Type breakdown size & forecasts, 2022-2032

- 8.1.2.2. Technology breakdown size & forecasts, 2022-2032
- 8.1.2.3. Application breakdown size & forecasts, 2022-2032
- 8.2. Europe Asphalt Additives Market
  - 8.2.1. UK Asphalt Additives Market
    - 8.2.1.1. Type breakdown size & forecasts, 2022-2032
    - 8.2.1.2. Technology breakdown size & forecasts, 2022-2032
    - 8.2.1.3. Application breakdown size & forecasts, 2022-2032
  - 8.2.2. Germany Asphalt Additives Market
    - 8.2.2.1. Type breakdown size & forecasts, 2022-2032
    - 8.2.2.2. Technology breakdown size & forecasts, 2022-2032
    - 8.2.2.3. Application breakdown size & forecasts, 2022-2032
  - 8.2.3. France Asphalt Additives Market
    - 8.2.3.1. Type breakdown size & forecasts, 2022-2032
    - 8.2.3.2. Technology breakdown size & forecasts, 2022-2032
    - 8.2.3.3. Application breakdown size & forecasts, 2022-2032
  - 8.2.4. Spain Asphalt Additives Market
    - 8.2.4.1. Type breakdown size & forecasts, 2022-2032
    - 8.2.4.2. Technology breakdown size & forecasts, 2022-2032
    - 8.2.4.3. Application breakdown size & forecasts, 2022-2032
  - 8.2.5. Italy Asphalt Additives Market
    - 8.2.5.1. Type breakdown size & forecasts, 2022-2032
    - 8.2.5.2. Technology breakdown size & forecasts, 2022-2032
    - 8.2.5.3. Application breakdown size & forecasts, 2022-2032
  - 8.2.6. Rest of Europe Asphalt Additives Market
    - 8.2.6.1. Type breakdown size & forecasts, 2022-2032
    - 8.2.6.2. Technology breakdown size & forecasts, 2022-2032
    - 8.2.6.3. Application breakdown size & forecasts, 2022-2032
- 8.3. Asia-Pacific Asphalt Additives Market
  - 8.3.1. China Asphalt Additives Market
    - 8.3.1.1. Type breakdown size & forecasts, 2022-2032
    - 8.3.1.2. Technology breakdown size & forecasts, 2022-2032
    - 8.3.1.3. Application breakdown size & forecasts, 2022-2032
  - 8.3.2. India Asphalt Additives Market
    - 8.3.2.1. Type breakdown size & forecasts, 2022-2032
    - 8.3.2.2. Technology breakdown size & forecasts, 2022-2032
    - 8.3.2.3. Application breakdown size & forecasts, 2022-2032
  - 8.3.3. Japan Asphalt Additives Market
    - 8.3.3.1. Type breakdown size & forecasts, 2022-2032
    - 8.3.3.2. Technology breakdown size & forecasts, 2022-2032

- 8.3.3.3. Application breakdown size & forecasts, 2022-2032
- 8.3.4. Australia Asphalt Additives Market
  - 8.3.4.1. Type breakdown size & forecasts, 2022-2032
  - 8.3.4.2. Technology breakdown size & forecasts, 2022-2032
  - 8.3.4.3. Application breakdown size & forecasts, 2022-2032
- 8.3.5. South Korea Asphalt Additives Market
  - 8.3.5.1. Type breakdown size & forecasts, 2022-2032
  - 8.3.5.2. Technology breakdown size & forecasts, 2022-2032
  - 8.3.5.3. Application breakdown size & forecasts, 2022-2032
- 8.3.6. Rest of Asia Pacific Asphalt Additives Market
  - 8.3.6.1. Type breakdown size & forecasts, 2022-2032
  - 8.3.6.2. Technology breakdown size & forecasts, 2022-2032
  - 8.3.6.3. Application breakdown size & forecasts, 2022-2032
- 8.4. Latin America Asphalt Additives Market
  - 8.4.1. Brazil Asphalt Additives Market
    - 8.4.1.1. Type breakdown size & forecasts, 2022-2032
    - 8.4.1.2. Technology breakdown size & forecasts, 2022-2032
    - 8.4.1.3. Application breakdown size & forecasts, 2022-2032
  - 8.4.2. Mexico Asphalt Additives Market
    - 8.4.2.1. Type breakdown size & forecasts, 2022-2032
    - 8.4.2.2. Technology breakdown size & forecasts, 2022-2032
    - 8.4.2.3. Application breakdown size & forecasts, 2022-2032
  - 8.4.3. Rest of Latin America Asphalt Additives Market
    - 8.4.3.1. Type breakdown size & forecasts, 2022-2032
    - 8.4.3.2. Technology breakdown size & forecasts, 2022-2032
    - 8.4.3.3. Application breakdown size & forecasts, 2022-2032
- 8.5. Middle East & Africa Asphalt Additives Market
  - 8.5.1. Saudi Arabia Asphalt Additives Market
    - 8.5.1.1. Type breakdown size & forecasts, 2022-2032
    - 8.5.1.2. Technology breakdown size & forecasts, 2022-2032
    - 8.5.1.3. Application breakdown size & forecasts, 2022-2032
  - 8.5.2. South Africa Asphalt Additives Market
    - 8.5.2.1. Type breakdown size & forecasts, 2022-2032
    - 8.5.2.2. Technology breakdown size & forecasts, 2022-2032
    - 8.5.2.3. Application breakdown size & forecasts, 2022-2032
  - 8.5.3. Rest of Middle East & Africa Asphalt Additives Market
    - 8.5.3.1. Type breakdown size & forecasts, 2022-2032
    - 8.5.3.2. Technology breakdown size & forecasts, 2022-2032
    - 8.5.3.3. Application breakdown size & forecasts, 2022-2032

## **CHAPTER 9. COMPETITIVE INTELLIGENCE**

### 9.1. Key Company SWOT Analysis

9.1.1. Arkema S.A.

9.1.2. BASF SE

9.1.3. Cargill, Incorporated

### 9.2. Top Market Strategies

### 9.3. Company Profiles

9.3.1. Arkema S.A.

9.3.1.1. Key Information

9.3.1.2. Overview

9.3.1.3. Financial (Subject to Data Availability)

9.3.1.4. Product Summary

9.3.1.5. Market Strategies

9.3.2. BASF SE

9.3.3. Cargill, Incorporated

9.3.4. Chase Corp.

9.3.5. Colorbiotics by Sika AG

9.3.6. Dorf Ketal Chemicals (I) Pvt. Ltd.

9.3.7. EP Bitumen

9.3.8. Evonik Industries AG

9.3.9. GreenMantra Technologies

9.3.10. Hangzhou Epsilon Chemical Co., Ltd.

9.3.11. Honeywell International Inc.

9.3.12. Huntsman Corporation

9.3.13. Ingevity Corporation

9.3.14. Iterchimica S.p.A.

9.3.15. J. Rettenmaier & Söhne GmbH + Co KG

## **CHAPTER 10. RESEARCH PROCESS**

### 10.1. Research Process

10.1.1. Data Mining

10.1.2. Analysis

10.1.3. Market Estimation

10.1.4. Validation

10.1.5. Publishing

### 10.2. Research Attributes



## List Of Tables

### LIST OF TABLES

TABLE 1. Global Asphalt Additives market, report scope

TABLE 2. Global Asphalt Additives market estimates & forecasts by Region 2022-2032 (USD Billion)

TABLE 3. Global Asphalt Additives market estimates & forecasts by Type 2022-2032 (USD Billion)

TABLE 4. Global Asphalt Additives market estimates & forecasts by Technology 2022-2032 (USD Billion)

TABLE 5. Global Asphalt Additives market estimates & forecasts by Application 2022-2032 (USD Billion)

TABLE 6. Global Asphalt Additives market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 7. Global Asphalt Additives market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 8. Global Asphalt Additives market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 9. Global Asphalt Additives market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 10. Global Asphalt Additives market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 11. Global Asphalt Additives market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 12. Global Asphalt Additives market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 13. Global Asphalt Additives market by region, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 14. Global Asphalt Additives market by segment, estimates & forecasts, 2022-2032 (USD Billion)

TABLE 15. U.S. Asphalt Additives market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 16. U.S. Asphalt Additives market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 17. U.S. Asphalt Additives market estimates & forecasts by segment 2022-2032 (USD Billion)

TABLE 18. Canada Asphalt Additives market estimates & forecasts, 2022-2032 (USD Billion)

TABLE 19. Canada Asphalt Additives market estimates & forecasts by segment  
2022-2032 (USD Billion)

TABLE 20. Canada Asphalt Additives market estimates & forecasts by segment  
2022-2032 (USD Billion)

This list is not complete, final report does contain more than 100 tables. The list may be updated in the final deliverable.

## List Of Figures

### LIST OF FIGURES

- FIG 1. Global Asphalt Additives market, research methodology
  - FIG 2. Global Asphalt Additives market, market estimation techniques
  - FIG 3. Global market size estimates & forecast methods.
  - FIG 4. Global Asphalt Additives market, key trends 2023
  - FIG 5. Global Asphalt Additives market, growth prospects 2022-2032
  - FIG 6. Global Asphalt Additives market, porters 5 force model
  - FIG 7. Global Asphalt Additives market, PESTEL analysis
  - FIG 8. Global Asphalt Additives market, value chain analysis
  - FIG 9. Global Asphalt Additives market by segment, 2022 & 2032 (USD Billion)
  - FIG 10. Global Asphalt Additives market by segment, 2022 & 2032 (USD Billion)
  - FIG 11. Global Asphalt Additives market by segment, 2022 & 2032 (USD Billion)
  - FIG 12. Global Asphalt Additives market by segment, 2022 & 2032 (USD Billion)
  - FIG 13. Global Asphalt Additives market by segment, 2022 & 2032 (USD Billion)
  - FIG 14. Global Asphalt Additives market, regional snapshot 2022 & 2032
  - FIG 15. North America Asphalt Additives market 2022 & 2032 (USD Billion)
  - FIG 16. Europe Asphalt Additives market 2022 & 2032 (USD Billion)
  - FIG 17. Asia pacific Asphalt Additives market 2022 & 2032 (USD Billion)
  - FIG 18. Latin America Asphalt Additives market 2022 & 2032 (USD Billion)
  - FIG 19. Middle East & Africa Asphalt Additives market 2022 & 2032 (USD Billion)
  - FIG 20. Global Asphalt Additives market, company market share analysis (2023)
- This list is not complete, final report does contain more than 50 figures. The list may be updated in the final deliverable.



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