

Porous Asphalt Market: Current Analysis and Forecast (2025-2033)

<https://marketpublishers.com/r/P0C1FB87297DEN.html>

Date: January 2026

Pages: 150

Price: US\$ 3,999.00 (Single User License)

ID: P0C1FB87297DEN

Abstracts

The Porous Asphalt Market is expected to grow at a steady CAGR of 5.80% during the forecast period (2025-2033F). The global porous asphalt market is projected to grow substantially over the forecast period due to the urgent need for long-term solutions to urban drainage challenges. This is due to increasing regulatory pressure to control stormwater runoff, mitigate flood risk, and enhance groundwater recharge. As global urban centers struggle to address climate change and stringent environmental regulations, porous asphalt is increasingly used to create sustainable sponge city infrastructure. It is mostly used on highways, parking lots, and municipal roads, where the high-permeability structure has been shown to be very efficient in filtering and draining rainwater, reducing the effects of urban heat islands, and lowering the burden of the conventional sewer system. Also, extended market development is driven by new material science such as polymer-modified binders and optimal aggregate mix, which improve durability and alleviate clogging- an ancient predicament of the technology. By innovating and emphasizing the integration of smart pavements and longer-life designs, it is possible to make porous asphalt a vital element of current and climate-adaptive infrastructure at the international level.

Based on product type, the global porous asphalt market is segmented into Open-Graded Friction Course (OGFC), Permeable Asphalt Pavement, Porous Asphalt Concrete, and Others. In 2024, the Open-Graded Friction Course (OGFC) segment is anticipated to hold the largest market share and continue its dominance throughout the forecast period. This is primarily because OGFC is commonly used as a wide-band, permeable surface layer in high-traffic roadways when agencies seek rapid surface drainage, improved wet-weather friction, and reduced splash-and-spray without necessarily reconstructing the entire road surface. The characteristics of OGFC that make it relatively easy to

install as an overlay are also appreciated, as they allow owners to enhance the facility's safety performance without adding significant weight to the structure and causing minimal interference with existing assets. Moreover, to balance between permeability and durability (e.g., raveling resistance) through aggregate gradation control, binder adjustment, and stabilizing additives, OGFC mix designs can be tuned to support consistent operations across varying rainfall intensity and traffic loading. The Permeable Asphalt Pavement segment, however, is likely to expand with the fastest rate of increase as the stormwater compliance and urban-flood mitigation requirements continue to accelerate, particularly full-depth permeable systems with stone reservoirs deployed to contain the runoff at the source.

Based on additive type, the global porous asphalt market is segmented into Polymers, Recycled Materials, Fibers, and Others. In 2024, the Polymers segment is anticipated to hold the largest market share and continue its dominance throughout the forecast period. This is primarily because a polymer-modified binder (e.g., SBS and other PMB systems) is widely being used to enhance the service life of open-graded/permeable asphalt to increase binder-aggregate bonding and increase resistance to raveling, abrasion, cracking, moisture damage, and temperature-induced distress without compromising the interlocking void structure, providing the advantages of drainage and noise reduction. The recycled materials segment will, however, increase the most due to growing sustainability goals and a circular-economy supply chain for roadway and stormwater infrastructure. Agencies and contractors are investigating reclaimed asphalt pavement (RAP), industrial by-products (e.g., steel slag), and other recycled aggregates/fillers to reduce embodied impacts and material costs without compromising functional requirements (e.g., permeability and skid resistance).

Based on application, the global porous asphalt market is segmented into Roadways, Parking Lots, Sidewalks, Driveways, and Others. In 2024, the Roadways segment is anticipated to hold the largest market share and continue its dominance throughout the forecast period. This can be largely attributed to the large amount of lane-kilometers that is maintained by highway and urban road authorities, and the high-performance advantages of porous/open-graded surfaces in wet conditions, rapid surface drainage, lower splash-and-spray, greater skid resistance, and less risk of hydroplaning, which is especially beneficial on high-speed corridors, bridges, ramps, and high-risk areas. Another way to fund roadway projects is to use larger, more frequent resurfacing and

safety-upgrade projects, where agencies can lay down permeable friction courses or porous surface layers to achieve safety and service-level targets without tearing up the bedrock. Parking Lots segment is, however, anticipated to expand most rapidly, owing to expanded compliance with stormwater requirements (and on-site runoff mitigation in commercial projects, campuses, logistics parks, and municipal facilities).

For a better understanding of the market of the porous asphalt market, the market is analyzed based on its worldwide presence in countries such as North America (The US, Canada, and Rest of North America), Europe (Germany, The UK, France, Italy, Spain, Rest of Europe), Asia-Pacific (China, Japan, India, Rest of Asia-Pacific), Rest of World. The Asia-Pacific region dominates the global asphalt market and is expected to continue to do so over the forecast period. The rapid urbanization, massive expansion of transportation systems, and increasing investments in climate-resilient, flood-prevention infrastructure have given the Asia-Pacific region a competitive edge in the global porous asphalt market, particularly in China, Japan, and India. The intensity of rainfall in most sub-markets (monsoon-driven conditions), dense urbanization, and the increase in impervious surface area have increased demand for pavement solutions that enhance surface drainage and minimize runoff impacts. Moreover, the Asia-Pacific region has a broad network of road construction services, asphalt manufacturers, and municipal project pipelines, which enables the more rapid implementation of open-graded and permeable pavement technologies on highways, urban streets, parking lots, and civic amenities. As infrastructure modernization accelerates and wet-weather driving becomes more safety-oriented, performance advantages of adopting porous asphalt include reduced splash-and-spray, improved skid resistance, and a reduced risk of hydroplaning. The current transition to sustainable stormwater management, the desire for quieter urban corridors, and the pursuit of improved lifecycle performance through changes to binders and mix design further enhance market development in the region.

Some of the major players operating in the market include Cemex S.A.B de C.V, Holcim, Boral, Tarmac, Colas, Skanska, CRH plc, Astec Industries, Inc., Graniterock, and Kilsaran.

Contents

1 MARKET INTRODUCTION

- 1.1. Market Definitions
- 1.2. Main Objective
- 1.3. Stakeholders
- 1.4. Limitation

2 RESEARCH METHODOLOGY OR ASSUMPTION

- 2.1. Research Process of the Porous Asphalt Market
- 2.2. Research Methodology of the Porous Asphalt Market
- 2.3. Respondent Profile

3 EXECUTIVE SUMMARY

- 3.1. Industry Synopsis
- 3.2. Segmental Outlook
 - 3.2.1. Market Growth Intensity
- 3.3. Regional Outlook

4 MARKET DYNAMICS

- 4.1. Drivers
- 4.2. Opportunity
- 4.3. Restraints
- 4.4. Trends
- 4.5. PESTEL Analysis
- 4.6. Demand Side Analysis
- 4.7. Supply Side Analysis
 - 4.7.1. Merger & Acquisition
 - 4.7.2. Investment Scenario
 - 4.7.3. Industry Insights: Leading Startups and Their Unique Strategies

5 PRICING ANALYSIS

- 5.1. Regional Pricing Analysis
- 5.2. Price Influencing Factors

6 GLOBAL POROUS ASPHALT MARKET REVENUE (USD MN), 2023-2033F

7 MARKET INSIGHTS BY PRODUCT TYPE

- 7.1. Open-Graded Friction Course
- 7.2. Permeable Asphalt Pavement
- 7.3. Porous Asphalt Concrete
- 7.4. Others

8 MARKET INSIGHTS BY ADDITIVE TYPE

- 8.1. Polymers
- 8.2. Recycled Materials
- 8.3. Fibers
- 8.4. Others

9 MARKET INSIGHTS BY APPLICATION

- 9.1. Roadways
- 9.2. Parking Lots
- 9.3. Sidewalks
- 9.4. Driveways
- 9.5. Others

10 MARKET INSIGHTS BY REGION

- 10.1. North America
 - 10.1.1. The US
 - 10.1.2. Canada
 - 10.1.3. Rest of North America
- 10.2. Europe
 - 10.2.1. Germany
 - 10.2.2. The UK
 - 10.2.3. France
 - 10.2.4. Italy
 - 10.2.5. Spain
 - 10.2.6. Rest of Europe
- 10.3. Asia-Pacific

- 10.3.1. China
- 10.3.2. Japan
- 10.3.3. India
- 10.3.4. Rest of Asia-Pacific
- 10.4. Rest of World

11 VALUE CHAIN ANALYSIS

- 11.1. Marginal Analysis
- 11.2. List of Market Participants

12 COMPETITIVE LANDSCAPE

- 12.1 Competition Dashboard
- 12.2. Competitor Market Positioning Analysis
- 12.3. Porter Five Forces Analysis

13 COMPANY PROFILES

- 13.1. Cemex S.A.B de C.V
 - 13.1.1. Company Overview
 - 13.1.2. Key Financials
 - 13.1.3. SWOT Analysis
 - 13.1.4. Product Portfolio
 - 13.1.5. Recent Developments
- 13.2. Holcim
- 13.3. Boral
- 13.4. Tarmac
- 13.5. Colas
- 13.6. Skanska
- 13.7. CRH plc
- 13.8. Astec Industries, Inc.
- 13.9. Graniterock
- 13.10. Kilsaran

14 ACRONYMS & ASSUMPTION

15 ANNEXURE

I would like to order

Product name: Porous Asphalt Market: Current Analysis and Forecast (2025-2033)

Product link: <https://marketpublishers.com/r/P0C1FB87297DEN.html>

Price: US\$ 3,999.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/P0C1FB87297DEN.html>