

# Railway Coatings Market Size to Worth Around USD 462.9 Mn by 2031 | Akzo Nobel N.V., The Sherwin-Williams Co.

*The railway coatings market was valued at US\$ 2,334.2 Mn in 2022, and is expected to exhibit a CAGR of 5.2%*

BURLINGAME, CALIFORNIA, UNITED STATES, July 12, 2024  
/EINPresswire.com/ -- Market Overview:

Railway coatings are protective coatings applied to railway assets such as freight cars, passenger coaches, and locomotives to protect them from corrosion and wear and tear. They provide functionality, durability, and aesthetics.



Railway Coatings Market Size

## Market Dynamics:

The railway coatings market is expected to showcase significant growth over the forecast period, owing to rising investments in railway infrastructure expansion projects globally. According to the World Bank, the total global investments in railway infrastructure projects in 2021 amounted to over US\$ 200 billion. Several countries are investing heavily in railway projects to modernize and expand their existing railway networks. For instance, China is spending over US\$ 126 billion to add 27,000 km of rail lines to its network by 2025. Similarly, India's National Rail Plan envisages investments of over US\$ 110 billion by 2030 for capacity expansion. Such large-scale railway infrastructure investments are expected to drive the demand for protective and functional railway coatings like anti-corrosion coatings and high-performance coatings.

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Stringent regulations to curb emission hampers market potential

Growing environmental concerns and stringent regulations worldwide to control vehicular emission is a major challenge faced by the railway coatings industry. Regulators across countries are imposing restrictions on the use of coatings containing volatile organic compounds (VOCs) due to their negative impact on air quality and ozone depletion. For instance, the European Union has limited the VOC content in various industrial coatings including those used in railway applications. Similarly, standards like RoHS and REACH in the EU have banned the use of hazardous substances like lead, mercury, cadmium, and chromium in surface coatings. Complying with such statutory norms necessitates the development of innovative low-VOC and environment-friendly coating formulations, which is a costly and time-consuming process. This regulatory pressure and compliance issues inhibit the market's untapped potential to a certain extent.

### Development of bio-based coatings opens new avenues

Rising environmental awareness is driving the demand for safer, eco-friendly and sustainable coating solutions across various industries including railways. This growing shift towards green products presents new opportunities for manufacturers to develop innovative bio-based railway coatings. Researchers are engaged in formulating novel coating compositions incorporating natural and renewable biomass derived chemicals like plant oils, resins, cellulose etc. For instance, vegetable oil based alkyd resins as a replacement for petroleum-derived resins. These bio-coatings exhibit excellent corrosion protection and can be easily recycled at end-of-life. Going forward, advancements in green chemistry would allow formulating 100% bio-based railway coating systems. The bio-coatings market is still in a nascent stage with large scope for commercialization, representing new revenue streams for innovative players.

### Growing high-speed railway network stimulates market trends

The construction of high-speed bullet train networks worldwide is a key trend positively influencing the railway coatings industry. Countries across Asia, Europe and North America are heavily investing in these next-generation rail corridors to facilitate fast commuting. For example, China has the world's largest high-speed rail network spanning over 35,000 km, with plans to double this network by 2025. Similarly, India's first bullet train project between Mumbai-Ahmedabad is under construction. These ultra-modern high-speed trains travel at over 250-350 km/hr speed and require specialized high-performance coatings to protect critical components against friction, abrasion and corrosion at high temperature and pressure conditions. Leading coating producers are engaged in New Product Development activities to meet the exacting coating standards for high-speed rail infrastructure and rolling stock.

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Top Companies Featured in This Report:

- Akzo Nobel N.V.
- The Sherwin-Williams Co.
- Axalta Coating Systems
- Weilburger Coatings GmbH
- Hempel A/S
- HSH Railway Finishes
- PPG Industries Inc.
- HELIOS
- Teknos Group
- Nipsea Group

Market Segmentation:

By Product Type:

- By Product Type: Primer, Base Coat, and Topcoat
- By Coating Type: Electro Coat, Liquid Coating (Solvent-borne and Waterborne), and Powder Coating

By Applications:

- By Application Area: Interior and Exterior
- By Application: OEM and Refurbishment

Key Regions/Countries Classified as Follows:

- » North America (U.S., Canada, Mexico)
- » Europe (Germany, U.K., France, Italy, Russia, Spain, Rest of Europe)
- » Asia-Pacific (China, India, Japan, Singapore, Australia, New Zealand, Rest of APAC)
- » South America (Brazil, Argentina, Rest of SA)
- » Middle East & Africa (Turkey, Saudi Arabia, Iran, UAE, Africa, Rest of MEA)

The report offers insights on the following aspects:

Chapter 1: Study Coverage

Chapter 2: Executive Summary

Chapter 3: Analysis of Railway Coatings Market Competition Landscape by Players

Chapter 4: Assessment of Railway Coatings Market Size by Type and Application

Chapter 5: Global and Regional Analysis

Chapter 6: Company Profiles, recent developments, and investments

Chapter 7: Analysis of Market Opportunities, Challenges, Risks, and Influencing Factors

Chapter 8: Evaluation of Value Chain and Sales Channels, including breakthrough product developments

Chapter 9: Research Findings and Conclusion

Chapter 10: Methodology/Research Approach

The report also delves into the competitive landscape, key players, trade patterns, industry value chain, recent news, policies, and regulations. Should you have any inquiries or require customization options, please don't hesitate to contact us.

In summary, whether you're engaged in manufacturing, distribution, or investment within the Railway Coatings sector, this report furnishes invaluable insights into market segments, drivers, challenges, investment prospects, regional dynamics, major players, growth strategies, prevailing trends, and hurdles influencing the industry's expansion.

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