

Insulation Coating Market Trends, Technological Advancement, Driving Factors and Forecast to 2033

The global insulation coating market is projected to reach \$17.9 billion by 2033, growing at a CAGR of 5.9% from 2024 to 2033

WILMINGTON, DE, UNITED STATES, June 26, 2025 /EINPresswire.com/ -- Allied Market Research published a report, titled, "[Insulation Coating Market](#) by Type (Acrylic, Epoxy, Polyurethane, YSZ, Mullite, Others), by End User (Aerospace, Automotive, Marine, Industrial, Building and Construction, Others): Global Opportunity Analysis and Industry Forecast, 2024-2033". According to the report, the "insulation coating market" was valued at \$10.2 billion in 2023, and is estimated to reach \$17.9 billion by 2033, growing at a CAGR of 5.9% from 2024 to 2033.



Customers Exploring Advancements in High-Temperature Insulation

Industries operating in high-temperature environments, such as aerospace, metallurgy, and energy production, are increasingly seeking advanced insulation coatings that can withstand extreme heat while maintaining structural integrity and performance. In the aerospace industry, high-temperature insulation coatings are critical for protecting aircraft and spacecraft components from extreme thermal fluctuations. These coatings prevent heat damage to engine parts, turbine blades, and exhaust systems while reducing overall weight compared to conventional insulation methods. In August 2024, PPG launched the PITT-THERM 909 spray-on insulation coating, targeting enhanced safety and operational efficiency in high-heat environments within the oil, gas, chemical, and petrochemical industries. This development underscores PPG's commitment to providing advanced solutions for thermal management in demanding industrial applications. Moreover, The CSIR-National Aerospace Laboratories in Bengaluru developed a paint coating technology aimed at providing thermal insulation for aircraft surfaces. This innovation addresses heating issues caused by engine exhaust plumes impacting aircraft structures. The coating offers a temperature reduction of approximately 25°C

when exposed to 150°C and demonstrates excellent adhesion to both metals and composites.

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R&D in Eco-Friendly Insulation Coatings

The growing global emphasis on sustainability and environmental responsibility is pushing industries to invest in research and development (R&D) of eco-friendly insulation coatings. Manufacturers have prioritized developing insulation coatings with reduced environmental impact by incorporating low volatile organic compounds (VOCs) and bio-based ingredients. Notable examples include BIONIC-FINISH® ECO, with up to 90% bio-based content, and RUCO-DRY® BIO CGR, containing 87% bio-based materials. In July 2024, Knauf Insulation was awarded a \$3.28 million grant from the U.S. Environmental Protection Agency (EPA) to enhance the development of Environmental Product Declarations (EPDs). This project aims to improve data quality and transparency regarding the embodied greenhouse gas emissions of construction materials. Knauf's initiative reflects a commitment to sustainability and provides stakeholders with accurate information to make informed decisions about low embodied carbon products.

Prime determinants of growth

Rising construction activities in emerging economies boost demand for thermal insulation coatings for buildings. In March 2025, an initiative in Gujarat involved painting roofs in slum areas with a reflective white coating to combat extreme heat. This project encompassed 400 households in Ahmedabad and is part of a global scientific trial studying the impact of indoor heat on health and economic outcomes in developing countries. Residents reported benefits such as cooler homes, improved sleep, and reduced electricity bills. Moreover, in November 2023, Scientists at the Jawaharlal Nehru Centre for Advanced Scientific Research introduced an affordable, eco-friendly radiative cooling paint made from a magnesium oxide-polyvinylidene fluoride nanocomposite. This paint demonstrates high solar reflectivity and thermal emissivity, leading to a surface temperature reduction of approximately 10°C under intense sunlight. Its water-resistant properties make it suitable for various applications, offering a cost-effective and environmentally sustainable solution for passive cooling.

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Expansion of Cold Chain Logistics

The rapid growth of cold chain logistics, driven by increasing demand for temperature-sensitive goods such as pharmaceuticals, perishable foods, and biotech products, is creating a strong need for efficient insulation coatings. In the pharmaceutical sector, the rise of biologic drugs, vaccines, and temperature-sensitive medications has intensified the need for reliable cold chain

infrastructure. In December 2024, The World Health Organization emphasized the need for environmentally sustainable pharmaceutical manufacturing and distribution. The initiative advocates for innovative regulatory practices to reduce the environmental footprint of medical products while maintaining safety and efficacy standards. Insulation coatings help maintain the required temperature levels by minimizing heat transfer and preventing condensation, which can compromise product integrity. The global distribution of vaccines, during the COVID-19 pandemic, made the importance of advanced thermal insulation solutions in ensuring safe and effective delivery has become more evident than ever. Moreover, according to the Economics Times, India's pharmaceutical market is projected to reach approximately \$28,560 million (₹2.38 lakh crore) in 2025, reflecting an 8.2% growth rate from the previous year. Over the past five years, the market has achieved a compound annual growth rate of 10.2%, driven by price increases and new product introductions.

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Emerging Smart Cities in Asia-Pacific Countries provides Opportunities for Insulation Coating

The smart city movement in Asia-Pacific countries is accelerating due to government initiatives, rapid urbanization, and sustainability goals. Insulation coatings play a crucial role in smart infrastructure by enhancing energy efficiency, reducing heat loss, and improving durability in buildings and transportation systems. India plans to invest about \$1.716 trillion (Rs 143 lakh crore) in smart infrastructure between fiscal years 2024 and 2030, with approximately \$422.92 billion (Rs 36.6 lakh crore) directed towards green projects. This marks a five-fold increase in the share of green infrastructure in India. Sectors such as roads, power transmission, renewable energy, and ports have seen rapid reforms and developments, creating opportunities for stakeholders to accelerate investments across infrastructure sectors.

Moreover, in January 2024, Chinese authorities released a plan to enhance the use of eco-friendly construction materials. The goal is for the green building materials sector to achieve an annual operating revenue exceeding 300 billion yuan (approximately 42.2 billion U.S. dollars) by 2026, with an average annual growth rate of over 10% from 2024 to 2026. Efforts focus on improving production techniques, adopting green energy, reducing energy consumption, and encouraging resource recycling to lower pollution and carbon emissions.

Threat for New Entrants and Competitive Rivalry

The competitive rivalry within the industry is intense, driven by continuous product innovations and strategic initiatives. For instance, in August 2024, PPG launched PPG PITT-THERM 909, a spray-on insulation coating aimed at enhancing safety and operational efficiency in high-heat environments within the oil, gas, chemical, and petrochemical industries. Similarly, AkzoNobel introduced an innovative powder coating technology in July 2024 to improve electrical protection for electric vehicle battery systems, thereby enhancing efficiency and safety. Governments

worldwide are also promoting energy-efficient coatings through initiatives like the EU Green Deal and India's Energy Conservation Building Code (ECBC), further intensifying competition.

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Key Players: -

PPG Industries, Inc.

Jotun

Axalta Coating System

The Sherwin-Williams Company

Dow Inc

Akzo Nobel N.V.

Kansai Paint Co., Ltd.

Carboline Company

Arkema Group

Hempel A/S

For More Details: <https://www.globenewswire.com/news-release/2025/04/07/3057063/0/en/Insulation-Coating-Market-Size-Worth-17-9-Billion-by-2033-CAGR-5-9-AMR.html>

Recent Key Developments

In August 2024, PPG launched PPG PITT-THERM 909, a silicone-based spray-on insulation designed for high temperature environments in industries such as oil and gas, chemical, and petrochemical sectors, enhancing safety and operational efficiency.

In July 2024, AkzoNobel introduced an innovative powder coating technology aimed at improving electrical protection for electric vehicle battery systems, enhancing efficiency and safety across various battery components.

In February 2023, Kansai HELIOS, a subsidiary of Kansai Paint, completed the acquisition of CWS.

This strategic move expanded the company's capabilities in the powder coatings and synthetic resins industry, enhancing its competitive advantage in insulation coating market.

The report provides a detailed analysis of these key players in the global insulation coating market. These players have adopted different strategies such as new product launches, collaborations, expansion, joint ventures, and agreements to increase their market share and maintain dominant shares in different regions. The report is valuable in highlighting business performance, operating segments, product portfolio, and strategic moves of market players to highlight the competitive scenario.

Access Full Summary Report: <https://www.alliedmarketresearch.com/insulation-coating-market-A08987>

David Correa

Allied Market Research

+ + 1800-792-5285

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