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Aerospace Coatings & Surface Treatments Market Forecasts to 2034 – Global Analysis By Coating Type (Paints & Primers, Thermal Barrier Coatings, Anti-Corrosion Coatings, Wear-Resistant Coatings, Specialty Coatings and Other Coating Types), Treatment, Technology, Property, Application and By Geography

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Abstracts

According to Stratistics MRC, the Global Aerospace Coatings & Surface Treatments Market is accounted for $4.25 billion in 2026 and is expected to reach $6.87 billion by 2034 growing at a CAGR of 6.2% during the forecast period. Aerospace Coatings & Surface Treatments include protective and functional layers applied to aircraft and spacecraft components to enhance durability, corrosion resistance, thermal protection, and aesthetics. These coatings include anti-corrosion, thermal barrier, anti-icing, and wear-resistant coatings. They improve component lifespan, reduce maintenance costs, and enhance performance in harsh operating environments. Innovations focus on eco-friendly coatings, advanced materials, and nanotechnology. The market is driven by increasing aircraft production, maintenance requirements, and the need for high-performance protective solutions in aerospace operations.

Market Dynamics:

Driver:

Need for corrosion and wear protection

Aircraft are exposed to harsh environments including moisture, salt, and extreme

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temperatures, which can compromise structural integrity. Advanced coatings provide durability and extend the lifespan of critical components. Both commercial and defense aviation sectors rely on protective coatings to reduce maintenance costs. The push toward sustainable aviation further amplifies the demand for high-performance coatings. As reliability becomes a priority, corrosion and wear protection remain central to market growth.

Restraint:

High cost of advanced coating materials

Specialized coatings require complex formulations and expensive raw materials. Enterprises face challenges in balancing affordability with performance requirements. Smaller aerospace firms often struggle to adopt advanced coatings due to financial constraints. Ongoing maintenance and certification add further expense. Despite strong demand, affordability remains a barrier to widespread adoption.

Opportunity:

Development of eco-friendly coating solutions

Regulatory pressures on sustainability are driving innovation in low-VOC and water-based coatings. Aerospace firms are investing in environmentally friendly alternatives to reduce emissions and improve compliance. Partnerships between coating manufacturers and aerospace companies are accelerating adoption. Eco-friendly coatings also enhance brand reputation by aligning with global sustainability goals. As demand for green technologies grows, eco-friendly coatings are expected to gain significant traction.

Threat:

Volatility in raw material prices

Dependence on global supply chains makes pricing vulnerable to economic and geopolitical shifts. Rising costs can reduce profitability for manufacturers and airlines. Enterprises risk delays in production and delivery due to unstable pricing. Smaller firms face greater challenges in managing cost volatility. This threat underscores the importance of supply chain resilience and pricing strategies.

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Covid-19 Impact:

The COVID-19 pandemic had a mixed impact on the aerospace coatings and surface treatments market. Supply chain disruptions and workforce limitations slowed production and delayed projects. However, recovery in commercial aviation and defense spending boosted demand for protective coatings. Enterprises accelerated innovation to meet post-pandemic sustainability goals. Space exploration initiatives continued to drive coating development despite short-term challenges. Overall, COVID-19 created temporary setbacks but reinforced long-term momentum for aerospace coatings.

The paints & primers segment is expected to be the largest during the forecast period

The paints & primers segment is expected to account for the largest market share during the forecast period as widely used in aircraft structures to provide corrosion resistance, durability, and aesthetic appeal. Primers ensure strong adhesion and long-term protection against environmental stress. Aerospace firms rely on paints and primers for fuselage, wings, and interior applications. Continuous innovation in formulations strengthens adoption. Commercial aviation prioritizes paints and primers for cost-effective manufacturing.

The thermal protection segment is expected to have the highest CAGR during the forecast period

Over the forecast period, the thermal protection segment is predicted to witness the highest growth rate due to increasing demand for coatings capable of withstanding extreme thermal environments in engines and propulsion systems. Thermal protection coatings enhance durability and efficiency under high-stress conditions. Aerospace firms are investing in advanced thermal barrier technologies to improve performance. Defense and space programs are driving adoption of thermal protection solutions. Partnerships between aerospace firms and coating developers are accelerating innovation.

Region with largest share:

During the forecast period, the North America region is expected to hold the largest market share owing to strong aerospace infrastructure, established manufacturers, and high defense spending. The U.S. leads with major players investing in advanced coating technologies. Robust demand for commercial aviation and military aircraft strengthens

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regional leadership. Government-backed initiatives in space exploration further accelerate adoption. Partnerships between aerospace firms and coating producers drive innovation.

Region with highest CAGR:

Over the forecast period, the Asia Pacific region is anticipated to exhibit the highest CAGR driven by rising defense budgets, and growing investments in commercial aviation. Countries such as China, India, and Japan are advancing large-scale aerospace projects. Regional startups are entering the market with innovative coating solutions. Expanding demand for commercial aircraft fuels adoption of advanced surface treatments. Government-backed programs supporting aerospace innovation further strengthen growth. Asia Pacific's strong momentum positions it as the fastest-growing region for aerospace coatings and surface treatments.

Key players in the market

Some of the key players in Aerospace Coatings & Surface Treatments Market include PPG Industries, Akzo Nobel N.V., Sherwin-Williams, Henkel AG & Co. KGaA, Hempel A/S, Mankiewicz Gebr. & Co., BASF Coatings, Axalta Coating Systems, 3M Company, OC Oerlikon, Praxair Surface Technologies, Solvay S.A., Bodycote plc, Curtiss-Wright, Advanced Coating Solutions and Aalberts N.V.

Key Developments:

In October 2025, Curtiss-Wright Surface Technologies completed the acquisition of Keronite Group Limited for $35 million, adding unique coatings technologies recognized for critical performance in severe service environments to its portfolio.

In August 2025, Sherwin-Williams Aerospace Coatings received four AMS 3095B qualifications for its complete line of chrome-free commercial aircraft exterior coating systems, demonstrating they meet demanding industry standards for performance and safety.

Coating Types Covered:

- Paints & Primers
- Thermal Barrier Coatings

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Anti-Corrosion Coatings

Wear-Resistant Coatings

Specialty Coatings

Other Coating Types

Treatments Covered:

Anodizing

Electroplating

Chemical Conversion Coating

Shot Peening

Laser Surface Treatment

Other Treatments

Technologies Covered:

Spray Coating

Powder Coating

Physical Vapor Deposition (PVD)

Chemical Vapor Deposition (CVD)

Thermal Spraying

Other Technologies

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Properties Covered:

- Corrosion Resistance
- Thermal Protection
- Wear Resistance
- Chemical Resistance
- UV Resistance
- Other Properties

Applications Covered:

- Airframe Coatings
- Engine Coatings
- Interior Coatings
- Landing Gear Coatings
- Spacecraft Coatings
- Other Applications

Regions Covered:

- North America
  - United States
  - Canada
  - Mexico

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  - France
  - Italy
  - Spain
  - Netherlands
  - Belgium
  - Sweden
  - Switzerland
  - Poland
  - Rest of Europe
- Asia Pacific
  - China
  - Japan
  - India
  - South Korea
  - Australia
  - Indonesia

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- Thailand
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- Singapore
- Vietnam
- Rest of Asia Pacific

South America

- Brazil
- Argentina
- Colombia
- Chile
- Peru
- Rest of South America

Rest of the World (RoW)

- Middle East
  - Saudi Arabia
  - United Arab Emirates
  - Qatar
  - Israel
  - Rest of Middle East
- Africa

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South Africa

Egypt

Morocco

Rest of Africa

What our report offers:

Market share assessments for the regional and country-level segments

Strategic recommendations for the new entrants

Covers Market data for the years 2023, 2024, 2025, 2026, 2027, 2028, 2030, 2032 and 2034

Market Trends (Drivers, Constraints, Opportunities, Threats, Challenges, Investment Opportunities, and recommendations)

Strategic recommendations in key business segments based on the market estimations

Competitive landscaping mapping the key common trends

Company profiling with detailed strategies, financials, and recent developments

Supply chain trends mapping the latest technological advancements

Free Customization Offerings:

All the customers of this report will be entitled to receive one of the following free customization options:

Company Profiling

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Comprehensive profiling of additional market players (up to 3)

SWOT Analysis of key players (up to 3)

Regional Segmentation

Market estimations, Forecasts and CAGR of any prominent country as per the client's interest (Note: Depends on feasibility check)

Competitive Benchmarking

Benchmarking of key players based on product portfolio, geographical presence, and strategic alliances

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13 COMPANY PROFILES

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Note: Tables for North America, Europe, APAC, South America, and Rest of the World (RoW) are also represented in the same manner as above.

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