

# **Radiation Cured Coatings Market – Global Industry Size, Share, Trends, Opportunity, & Forecast 2018-2028 Segmented By Raw Material (Oligomers, Monomers, Photo initiators, Additives), By Application (Adhesives, Pulp and Paper, Printing Inks, Wood, Glass, Others), By Region, Competition**

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## **Abstracts**

Global Radiation Cured Coatings Market has valued at USD 19.92 billion in 2022 and is anticipated to project robust growth in the forecast period with a CAGR of 4.06% through 2028. Radiation-cured coatings market has emerged as a shining beacon in the coatings industry, offering a spectrum of advantages that cater to diverse industrial needs. Leveraging the power of ultraviolet (UV) or electron beam (EB) curing, these coatings have witnessed substantial growth, driven by factors such as environmental sustainability, rapid curing times, and high-performance characteristics.

The radiation-cured coatings market stands at the forefront of coating technologies, driven by a confluence of factors such as sustainability, performance excellence, and technological innovations. As industries continue to prioritize efficiency, environmental responsibility, and high-quality finishes, radiation-cured coatings are poised to play an increasingly vital role in shaping the future of coatings across the globe.

### **Key Market Drivers**

#### **Environmental Sustainability**

One of the primary drivers for the adoption of radiation-cured coatings is their inherently low volatile organic compound (VOC) content. VOCs contribute to air pollution and pose

health risks. The reduced emission of VOCs aligns with stringent environmental regulations and industry standards, making radiation-cured coatings a sustainable choice.

Unlike traditional solvent-based coatings, radiation-cured coatings often eliminate the need for hazardous solvents in the formulation. This not only enhances workplace safety but also minimizes the release of harmful substances into the environment during the coating application and curing processes.

The energy-efficient nature of radiation curing processes adds another layer to the environmental sustainability narrative. UV curing, in particular, consumes less energy compared to traditional curing methods. This reduction in energy consumption contributes to lower carbon footprints and aligns with global efforts to mitigate climate change.

Rapid curing times associated with radiation-cured coatings result in less waste during the production process. The efficiency in curing translates to lower material consumption and reduced energy requirements, leading to a decrease in overall environmental impact throughout the product lifecycle.

With a rising emphasis on sustainable building practices, radiation-cured coatings find favor in green construction projects. These coatings contribute to achieving green building certifications by meeting criteria related to low VOC emissions and sustainable material choices.

### Rapid Curing Time

The hallmark of radiation-cured coatings lies in their ability to cure rapidly upon exposure to ultraviolet (UV) or electron beam (EB) radiation. This rapid curing translates directly to increased productivity in manufacturing processes. The swift curing times of these coatings mean reduced production cycle durations, enabling industries to achieve higher throughput and meet demanding production schedules.

The efficiency of radiation curing processes contributes to minimizing downtime in manufacturing operations. As coatings cure almost instantaneously, the need for extended curing periods or complex post-curing steps is diminished. This reduction in downtime enhances overall operational efficiency and allows for faster turnaround times.

The rapid curing time of radiation-cured coatings corresponds to energy efficiency. Traditional curing methods often involve prolonged heating processes, consuming substantial energy. In contrast, UV or EB curing requires shorter exposure times, leading to lower energy consumption and operational costs.

Industries with high-volume production requirements, such as packaging and automotive manufacturing, benefit significantly from the rapid curing times of radiation-cured coatings. The ability to achieve quick and uniform curing on a large scale enhances throughput, meeting the demands of mass production.

The rapid curing nature of these coatings aligns seamlessly with just-in-time manufacturing principles. Industries can respond swiftly to changing market demands, producing coatings on-demand with minimal lead times. This flexibility positions radiation-cured coatings as a strategic choice for industries requiring agile and responsive manufacturing processes.

### Global Market Expansion

Global market expansion is fueled by the diverse applications of radiation-cured coatings across various end-use industries. From automotive and electronics to packaging and healthcare, the versatility of these coatings caters to a spectrum of sectors, driving their adoption on a global scale.

The radiation-cured coatings market is witnessing substantial growth in emerging economies. As countries ramp up industrialization and infrastructure development, the demand for advanced coatings with rapid curing times and high-performance characteristics is propelling the market forward.

Industry players are increasingly entering strategic alliances and collaborations to expand their global footprint. These partnerships facilitate the exchange of technologies, market insights, and resources, enabling companies to establish a stronger presence in new and emerging markets.

Established markets in North America and Europe are witnessing a steady adoption of radiation-cured coatings, driven by the need for sustainable and efficient coating solutions. The technology's ability to align with stringent environmental regulations positions it as a viable choice in mature markets.

The global expansion of the radiation-cured coatings market is further fueled by the

ability of manufacturers to customize formulations to meet regional and industry-specific requirements. This adaptability enhances the coatings' suitability for diverse markets, contributing to their widespread acceptance.

## Key Market Challenges

### High initial Capital Investment

At the heart of the challenge lies the need for specialized equipment, such as ultraviolet (UV) curing systems or electron beam (EB) curing units. The acquisition and installation of these technologies entail a substantial upfront investment, often serving as a deterrent for businesses contemplating the transition to radiation-cured coatings.

Small and medium-sized enterprises, with limited financial resources, find themselves facing pronounced barriers to entry. The capital-intensive nature of the initial investment can constrain the ability of SMEs to adopt radiation-cured coatings, limiting their competitiveness in the market.

The coatings industry, like many others, tends to be risk-averse when it comes to embracing new technologies that demand substantial financial commitments. The uncertainty surrounding returns on investment coupled with high upfront costs creates a hesitancy that permeates decision-making processes.

Companies evaluating the adoption of radiation-cured coatings grapple with the uncertainty of return on investment (ROI). The benefits of rapid curing and environmental sustainability must outweigh the initial capital outlay to justify the transition, leading to careful consideration and analysis.

Implementing radiation-cured coatings also demands skilled personnel to operate and maintain the specialized equipment. This necessitates additional investment in training or hiring experts, further contributing to the overall capital expenditure.

### Limited Substrate Compatibility

The challenge of limited substrate compatibility arises from the intricate chemistry involved in formulating radiation-cured coatings. Different substrates exhibit varied surface properties, porosities, and chemical compositions, demanding tailored formulations for optimal adhesion and curing. Achieving a universal formulation that accommodates the diverse range of substrates is a complex undertaking.

The effectiveness of radiation-cured coatings relies heavily on their ability to adhere firmly to the substrate. Limited compatibility can result in challenges related to adhesion and bonding, impacting the overall performance and durability of the coating.

Substrates possess varying surface energies, influencing the wetting and spreading behavior of coatings. Achieving uniform coverage and adhesion becomes challenging when dealing with substrates with significantly different surface energy levels.

Industries with unique substrate requirements, such as those in the aerospace or automotive sectors, may find the limited substrate compatibility of radiation-cured coatings to be a barrier to their widespread adoption. These industries often deal with specialized materials that demand precise coating formulations.

The nature of radiation curing processes, particularly UV curing, poses challenges in achieving uniform curing in thick coatings or substrates with limited transparency to UV light. This limitation can impact the applicability of radiation-cured coatings in certain applications.

## Key Market Trends

### Expansion in End Use Industries

One of the key drivers propelling the radiation-cured coatings market is the diversification of applications beyond its traditional strongholds. Industries that traditionally relied on conventional coatings are now recognizing the unique advantages of radiation-cured formulations, leading to their integration in unconventional sectors.

The electronics and technology sector stands out as a notable beneficiary of the expansion trend. Radiation-cured coatings, with their rapid curing times and high-performance characteristics, are increasingly favored in electronic components and devices, offering protection, insulation, and enhanced aesthetics.

The medical devices and healthcare industry is witnessing a paradigm shift with the adoption of radiation-cured coatings. The coatings offer benefits such as biocompatibility, sterilization resistance, and precision in coating complex medical equipment, contributing to the sector's drive for innovation.

The rise of 3D printing technologies has created a fertile ground for radiation-cured

coatings. The coatings play a crucial role in enhancing the performance of UV-curable resins used in 3D printing applications, addressing the unique challenges posed by additive manufacturing processes.

In the aerospace and aviation industry, where stringent performance standards and durability are paramount, radiation-cured coatings are gaining traction. Their ability to provide lightweight, high-performance coatings aligns with the industry's quest for materials that meet rigorous specifications.

### Innovation in Formulation Technologies

At the forefront of innovation are advancements in photo initiators—the catalysts that initiate the curing process upon exposure to radiation. The development of novel photo initiators enhances the efficiency and speed of curing, contributing to the rapid curing times that define radiation-cured coatings.

Formulation technologies are evolving to provide greater control over the properties of radiation-cured coatings. Tailored oligomers and monomers allow formulators to fine-tune characteristics such as flexibility, hardness, and adhesion, addressing specific performance requirements across diverse applications.

The integration of precise additives is a key facet of formulation innovation. These additives enhance functionalities such as scratch resistance, UV resistance, and antimicrobial properties, expanding the utility of radiation-cured coatings in industries where stringent performance standards are essential.

Innovation extends to the development of hybrid formulations that combine the strengths of radiation curing with other curing mechanisms. These dual-cure systems offer versatility, allowing coatings to cure through multiple mechanisms, providing enhanced performance tailored to specific applications.

Formulation technologies are addressing environmental concerns by focusing on low volatile organic compound (VOC) formulations. Innovations in sustainable solutions contribute to the market's responsiveness to regulatory demands and industry preferences for eco-friendly coatings.

### Growing Emphasis on Sustainability

Sustainability in radiation-cured coatings is synonymous with a significant reduction in

volatile organic compounds (VOCs). The industry's dedication to formulating coatings with lower VOC content aligns with global efforts to mitigate air pollution and create healthier working environments.

The formulation landscape is witnessing a paradigm shift, with an increased focus on eco-friendly ingredients. Innovations in formulation technologies are paving the way for coatings that deliver high performance while minimizing environmental impact, meeting the demand for sustainable solutions.

The radiation-cured coatings market is exploring waterborne alternatives that further underscore sustainability. Waterborne formulations, with their lower environmental footprint and reduced use of solvents, appeal to industries seeking coatings that align with stringent environmental regulations.

Sustainability in radiation-cured coatings extends beyond manufacturing to encompass the entire product lifecycle. Companies are adopting a cradle-to-grave approach, considering factors such as raw material sourcing, production processes, application methods, and end-of-life considerations to minimize environmental impact.

The construction industry, which is increasingly focused on sustainable building practices, is driving the demand for radiation-cured coatings. Coatings that meet green building standards contribute to eco-friendly structures, aligning with the construction sector's commitment to sustainability.

## Segmental Insights

### Raw Material Insights

Oligomers serve as the backbone of radiation-cured coatings, defining their fundamental properties. These are polymeric compounds with a predetermined molecular weight that determines key characteristics such as flexibility, adhesion, and curing speed. Innovations in oligomer design allow formulators to tailor coatings for specific applications, ensuring a precise balance of properties.

Monomers are the reactive components that, when polymerized, contribute to the final structure of the coating. The selection of monomers influences properties such as hardness, chemical resistance, and curing speed. The ability to fine-tune these characteristics is central to the versatility of radiation-cured coatings, allowing for customization to meet diverse industry requirements.

Photo initiators are the catalysts that kickstart the curing process when exposed to radiation. They absorb energy and initiate the crosslinking reactions, transforming liquid coatings into solid, durable films. Advances in photo initiator technology focus on enhancing efficiency, reducing cure times, and expanding the range of wavelengths for curing, providing flexibility in curing processes.

Additives serve a multifaceted role in radiation-cured coatings. From imparting specific functionalities to enhancing performance characteristics, additives play a pivotal role. UV stabilizers, antioxidants, antimicrobial agents, and surface modifiers are just a few examples of additives that contribute to the coatings' durability, longevity, and environmental adaptability.

### Application Insights

The adhesive industry has witnessed a transformative embrace of radiation-cured coatings. In adhesive applications, the rapid cure times of radiation-cured formulations provide an edge, enabling efficient bonding processes. This application is especially valuable in industries where speed and precision in bonding are critical, such as in the assembly of electronic components.

The pulp and paper industry has integrated radiation-cured coatings into its processes to enhance print quality and efficiency. Coated papers benefit from improved ink adhesion, reduced drying times, and superior surface properties, contributing to the production of high-quality printed materials with enhanced visual appeal.

Printing inks formulated with radiation-cured coatings have become synonymous with precision. UV-curable inks, for instance, offer rapid curing on various substrates, resulting in high-quality prints with vibrant colors and sharp details. The flexibility of these inks caters to the diverse needs of the printing industry, from packaging to signage.

The wood industry has embraced radiation-cured coatings for protective and decorative purposes. In applications such as furniture, flooring, and cabinetry, these coatings provide a seamless blend of protection against wear and tear while enhancing the aesthetic appeal of wood surfaces. The ability to achieve a balance between durability and visual appeal is a hallmark of radiation-cured coatings in wood applications.

Radiation-cured coatings are making strides in the glass industry, offering a clear path



to enhanced durability. Coated glass surfaces benefit from improved scratch resistance, easy cleaning properties, and resistance to environmental elements. This application finds use in architectural glass, automotive glass, and electronic display screens.

## Regional Insights

Asia-Pacific region stands at the forefront of expanding industrialization and infrastructure development. With countries like China, India, and Japan leading the way, the demand for high-performance coatings, such as radiation-cured coatings, is surging. These coatings cater to the stringent requirements of industrial applications, contributing to the resilience and longevity of structures and equipment.

The robust growth of the automotive and electronics sectors in the Asia-Pacific region is a significant driving force for the radiation-cured coatings market. As these industries demand coatings with superior performance, durability, and rapid curing capabilities, radiation-cured formulations emerge as a preferred choice, ensuring efficiency in production processes and high-quality finishes.

Environmental sustainability is a key concern across industries in the Asia-Pacific region. Radiation-cured coatings, with their low VOC content and eco-friendly formulations, align perfectly with the region's commitment to green practices. The emphasis on sustainable coatings is driving the adoption of radiation-cured technologies in industries ranging from manufacturing to construction.

The Asia-Pacific region is a hotbed for innovations in coating technologies, including formulations used in radiation-cured coatings. Research and development efforts in countries like South Korea and Japan are contributing to advancements in photoinitiators, oligomers, and additives, enhancing the performance and versatility of radiation-cured coatings.

The region is witnessing strategic investments and collaborations among key players in the coatings industry. Local and global companies are recognizing the potential of the Asia-Pacific market and are actively engaging in partnerships, joint ventures, and expansions. This not only boosts the production capacity of radiation-cured coatings but also fosters knowledge exchange and technological advancements.

## Key Market Players

Dow Chemical Company

PPG Industries

The Sherwin-Williams Company

Akzo Nobel N.V.

ICA SpA

Axalta Coating Systems

Covestro AG

The Lubrizol Corporation

NEI Corporation

#### Report Scope:

In this report, the Global Radiation Cured Coatings Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

#### Radiation Cured Coatings Market, By Raw Material:

Oligomers

Monomers

Photo Initiators

Additives

#### Radiation Cured Coatings Market, By Application:

Adhesives

Pulp and Paper

Printing Inks

Wood

Glass

Others

Radiation Cured Coatings Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the Global Radiation Cured Coatings Market.

## Available Customizations:

Global Radiation Cured Coatings market report with the given market data, Tech Sci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

## Company Information

Detailed analysis and profiling of additional market players (up to five).

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