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Global Radiation Cured Coatings Market Size Study, by Application (Automotive, Electronics, Medical, Industrial, Packaging), by Curing Technology (Ultraviolet Light Curing, Electron Beam Curing, Other Advanced Curing Techniques), by Chemistry (Acrylic-Based, Epoxy-Based, Polyester-Based, Silicone-Based, Urethane-Based), by Resin Type (Waterborne, Solventborne, High-Solids, 100% Solids), and Regional Forecasts 2022-2032

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Abstracts

The Global Radiation Cured Coatings Market, valued at approximately USD 9.66 billion in 2023, is projected to expand at a CAGR of 5.48% during the forecast period 2024-2032, reaching an estimated value of USD 15.61 billion by 2032. Radiation-cured coatings, widely recognized for their environmentally friendly and energy-efficient curing processes, have become indispensable in industries ranging from automotive to electronics. These coatings leverage advanced curing technologies such as ultraviolet (UV) and electron beam (EB) systems to deliver enhanced performance, reduced curing times, and minimal environmental impact, making them a favored choice across diverse sectors.

A surge in demand for high-performance, eco-friendly coatings in automotive and industrial applications, coupled with advancements in UV and EB curing technologies, is driving market growth. Radiation-cured coatings are extensively used in packaging to ensure superior aesthetics and functionality, while the electronics sector benefits from their precision and durability. Despite the growth opportunities, the market faces challenges such as high initial investments in curing equipment and technical

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complexities. However, ongoing innovations in advanced curing techniques and the development of bio-based formulations are expected to address these hurdles effectively.

Regionally, North America leads the market owing to its established automotive and packaging industries and increasing adoption of eco-friendly technologies. Europe, with its stringent environmental regulations and a strong focus on sustainable practices, maintains a significant market share. Meanwhile, the Asia-Pacific region is anticipated to witness the fastest growth due to rapid industrialization, increased investments in infrastructure, and expanding automotive and electronics sectors in emerging economies like China and India.

Major market players included in this report are:

AkzoNobel N.V.

BASF SE

PPG Industries, Inc.

The Sherwin-Williams Company

Valspar Corporation

Covestro AG

Evonik Industries AG

Royal DSM N.V.

Arkema S.A.

Allnex Group

Nippon Paint Holdings Co., Ltd.

3M Company

Sika AG

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Tikkurila OYJ

Kansai Paint Co., Ltd.

The detailed segments and sub-segments of the market are explained below:

By Application:

Automotive

Electronics

Medical

Industrial

Packaging

By Curing Technology:

Ultraviolet Light Curing

Electron Beam Curing

Other Advanced Curing Techniques

By Chemistry:

Acrylic-Based

Epoxy-Based

Polyester-Based

Silicone-Based

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Urethane-Based

By Resin Type:

Waterborne

Solventborne

High-Solids

100% Solids

By Region:

North America

U.S.

Canada

Europe

UK

Germany

France

Italy

Spain

Rest of Europe

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Asia Pacific

- China
- India
- Japan
- South Korea
- Australia
- Rest of Asia Pacific

Latin America

- Brazil
- Mexico
- Rest of Latin America

Middle East & Africa

- Saudi Arabia
- UAE
- South Africa
- Rest of Middle East & Africa

Years considered for the study are as follows:

- Historical Year: 2022

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Base Year: 2023

Forecast Period: 2024-2032

Key Takeaways:

Comprehensive market estimates and forecasts from 2022 to 2032.

Regional analysis covering major countries and regions.

In-depth evaluation of the competitive landscape, highlighting key players and their strategies.

Strategic recommendations for stakeholders to capitalize on emerging trends.

Comprehensive demand-side and supply-side market analysis.

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