Future of Antimicrobial Coatings Market Looks Promising. Global Market to reach $5.0 billion by 2025 with CAGR of 6.2%


<table>
<thead>
<tr>
<th>Year</th>
<th>Value (US $B)</th>
<th>CAGR (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2014</td>
<td>$2.2</td>
<td></td>
</tr>
<tr>
<td>2019</td>
<td>$3.5</td>
<td>+9.2%</td>
</tr>
<tr>
<td>2025</td>
<td>$5.0</td>
<td>+6.2%</td>
</tr>
</tbody>
</table>

Source: Lucintel

Top Companies in Antimicrobial Coatings Market
- Akzonobel
- Axalta Coating System
- BASF
- PPG Industries Inc.
- Sherwin-Williams

Opportunities for Antimicrobial Coatings by Various End Use Industries, Biocides and Resin Type

<table>
<thead>
<tr>
<th>End Use Industry</th>
<th>Biocides Type</th>
<th>Resin Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building &amp; Construction</td>
<td>Silver, Quaternary Ammonium Compounds, Zinc, Copper, Octylisothiazolinone</td>
<td>Polyester, Acrylic, Polyurethane, Epoxy, Others</td>
</tr>
<tr>
<td>Medical</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Food &amp; Beverages</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Textile</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Others</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
In terms of Overall Opportunity, Antimicrobial Coatings Market represents ~8% in the Global Protective Coatings


- **2014**: $34.3 B, 6% Protective Coating, 93% Antimicrobial Coating
- **2019**: $42.3 B, 8% Protective Coating, 94% Antimicrobial Coating
- **2025**: $53.3 B, 9% Protective Coating, 93% Antimicrobial Coating

**CAGR (2019-2025)**
- Protective Coating: ~3.9%
- Antimicrobial Coating: ~6.2%

Source: Lucintel
Evolution: Antimicrobial Coatings Opportunities Have Evolved Through Number of Stages From Silver to Natural Biocide Sources

- **1970**: Antimicrobial coatings for Orthopaedic and Spinal Implants
  - Introduced around 1970. Antimicrobial coating for preventing infection by mitigating biofilm formation including antibiotic, antiseptic, nano-silver, and photoactive-based coatings.

- **1990**: Antimicrobial coatings for Food Content Surface

- **2000**: Antimicrobial Low Density Polyethylene Film Coating

- **2010**: Antimicrobial coatings from Natural Sources for food & beverages
  - Arrival around 2019 – Early 2020s. Extraction of antimicrobial coating from natural sources like grape seeds and bell pepper.

Source: Lucintel
In this Market, Building and Construction is the Largest Market by End Use, whereas Silver is largest in Biocides Type

### Antimicrobial Coating Market by End Use

<table>
<thead>
<tr>
<th>End Use</th>
<th>Growth Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Building &amp; Construction</td>
<td>Up</td>
</tr>
<tr>
<td>Medical</td>
<td>Up</td>
</tr>
<tr>
<td>Food &amp; Beverages</td>
<td>Up</td>
</tr>
<tr>
<td>Textiles</td>
<td>Up</td>
</tr>
<tr>
<td>Others</td>
<td>Up</td>
</tr>
</tbody>
</table>

### Antimicrobial Coating Market by Biocides Type

<table>
<thead>
<tr>
<th>Biocides Type</th>
<th>Growth Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silver</td>
<td>Up</td>
</tr>
<tr>
<td>Quaternary Ammo. Comp.</td>
<td>Up</td>
</tr>
<tr>
<td>Zinc</td>
<td>Up</td>
</tr>
<tr>
<td>Copper</td>
<td>Up</td>
</tr>
<tr>
<td>Octylisothiazolinone</td>
<td>Up</td>
</tr>
</tbody>
</table>

Key:
- **Negative**: <0%
- **Flat**: 0%-3%
- **Growing**: >3%

Source: Lucintel
In Terms of Regions, North America Provides the Largest Opportunity for Antimicrobial Coatings Followed by APAC and Europe

Opportunities for Antimicrobial Coating in following top countries are identified in this report
- USA
- Mexico
- Canada
- Germany
- United Kingdom
- China
- Japan
- South Korea

Source: Lucintel
Ecosystem of the Antimicrobial Coatings Market is Composed of Diverse Group of Companies

<table>
<thead>
<tr>
<th>Raw Material Supplier (Resin)</th>
<th>Raw Material Supplier (Biocides)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dupont</td>
<td>CLARIANT</td>
</tr>
<tr>
<td>3M</td>
<td>BioCote</td>
</tr>
<tr>
<td>BASF</td>
<td>Dow</td>
</tr>
<tr>
<td>DSM</td>
<td>Lonza</td>
</tr>
<tr>
<td>Hexion</td>
<td>Solvay</td>
</tr>
<tr>
<td>RESIN</td>
<td>Sanitized</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>AMCs Manufacturer (Liquid, Solid, and Powder Form)</th>
<th>End Use (Building &amp; Construction, Medical, and Food and Beverage)</th>
</tr>
</thead>
<tbody>
<tr>
<td>AkzoNobel</td>
<td>Siemens</td>
</tr>
<tr>
<td>BASF</td>
<td>Medtronic</td>
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<tr>
<td>AXALTA</td>
<td>GE Healthcare</td>
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<tr>
<td>PPG</td>
<td>Amcor</td>
</tr>
<tr>
<td>Sherwin-Williams</td>
<td>DaiKIN</td>
</tr>
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Source: Lucintel
Increasing Awareness Towards Health Hygiene & Bacterial Free Construction are Major Drivers in This Market

**Key Drivers**

**Increasing Demand in Medical Industry:** Growing awareness concerning about hygiene and healthcare and the increased incidence of infection, which are occurring due to medical infection is driving the growth in antimicrobial coatings in medical industry.

**Growing Demand in Building & Construction Industry:** Government guidelines in various countries to provide a bacteria free and hygienic environment in public places and increasing usage of antimicrobial coatings in HVAC systems.

**Corona-19 Impact:** Increasing spread of infectious diseases as COVID 19 and SARS is likely to encourage stringent regulations in construction industry to reduce the risk of contamination, thereby boosting the antimicrobial coatings market.

**Health Issues Related to Using Silver as Biocides:** Apart from the potential benefits, biocides used in coatings has some adverse effects such as ecosystem disturbance and bacterial resistance to silver.

**Volatility in Price:** The volatility in price of raw materials may effect the growth of the antimicrobial coating market.

**Source:** Lucintel
Layer by layer Dip Coating Process and Extraction of Antimicrobial from Natural Sources are some of the Emerging Trends

Trend A: Layer by layer antimicrobial dip coating process

Trend B: New technology to extract antimicrobial from natural sources

Source: Lucintel
Developing Capabilities in Developing Low Cost and Natural Biocide for Antimicrobial Coating Provide Strategic Growth Path

**Strategic Considerations in Antimicrobial Coatings Market**

- Players of antimicrobial coatings market should focus to increase their capabilities to develop low cost coatings for safe and bacteria free surface for various applications
- Investments to increase competencies in advanced technologies to develop antimicrobial coating from natural biocide sources
- Research and development activities to develop low cost and safe antimicrobial coatings

- Strategic collaborations / acquisitions to increase geographical presence in growing countries like China, India and other developing countries
- Alliance to register presence in new applications such as medical and construction
- Collaborative activities to develop advanced antimicrobial coating technologies

Source: Lucintel
These Insights are Based on Below Market Report from Lucintel. It can help you Identify New Opportunities by Various Segments and Regions

Click for detail: https://www.lucintel.com/antimicrobial-coating-market.aspx

Market Opportunities

<table>
<thead>
<tr>
<th>Year</th>
<th>Value (US$B)</th>
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<td>2021</td>
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<td>2022</td>
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<td>2024</td>
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<td>2025</td>
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Market Segment Analysis

- End Use
- Resin Type
- Biocide Type
- Region

Regional Opportunities

- USA
- Canada
- Mexico
- UK
- Germany
- South Korea
- Japan
- China
- Others

Market Share Analysis

- Player 1
- Player 2
- Player 3
- Player 4
- Player 5
- Others

Other Coverage in Report

- New Product Development
- Company Expansion
- Merger Acquisitions & JV
- Company Profiling

Note: These insights are based on recently launched Lucintel’s Report on OSAT Market, which has 150+ Page and over 100+ charts and tables. Lucintel also offers 10% free customization on above report based on your needs.
Lucintel has an Extensive Toolkit to Address Strategic Questions

Key Questions

- Is market space / opportunity of current product offerings sufficiently robust?
- Market is focus for many: how can my company profitably differentiate?
- Based on our core skills, where should we focus?
- Should we build or buy? Is build even an option?
- What game changer actions exist and/or is a more incremental approach best?
- What is the order sequence of market entry segments / products?
Lucintel - At a Glance

- Premier management consulting and market research firm. Founded in 1998.
- Deep global insights into major industries. Team of over 120 analysts/consultants across globe.
- Management comprised of PhDs, MBAs, and subject matter experts. Headquarter in Dallas, USA.

Conducted 500+ consulting projects across industries for 3M, Audi, Dupont, Carlyle, GE, etc.

Consulting Services
- Opportunity screening
- Market entry strategy
- Supply chain analysis
- Growth finance
- Strategic consulting
- Competitive assessment
- Due diligence
- M & A services

Why Lucintel
- Clients we serve: Over 1000 clients from 70 countries – Fortune 500 companies
- Strategic advice: Over 20 years of proven global strategic management consulting experience

Industries Served
- [Images of industries]
Contact Us

Sanjay Mazumdar, Ph.D.
CEO, Author, & Strategist
Email: sanjay.mazumdar@lucintel.com

Eric Dahl, MBA, Harvard University
Senior Executive Advisor
Email: eric.dahl@lucintel.com

Brandon Fitzgerald
Director of Client Engagement
Email: brandon.fitzgerald@lucintel.com

Nigel O’Dea
Business Development Manager
Email: nigel.odea@lucintel.com