

Markets for Smart Antimicrobial Coatings and Surfaces – 2015 to 2022

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Abstracts

Smart antimicrobial coatings and surfaces represent an important element of the smart materials space. The market for smart antimicrobial coatings and surfaces is driven by the need to selectively combat new threats from bacteria, viruses and fungi. Also important to the future of smart antimicrobial coatings is the mandate to reduce hospital-acquired infections. But, the opportunity for antimicrobial surfaces extends well beyond healthcare facilities. In a growing number of cases, the next generation of antimicrobial coatings and surfaces will be smart enough to kill harmful microbes while leaving the beneficial ones, or will combine antimicrobial action with the ability to self clean.

In this report, n-tech discusses the latest products and R&D in smart antimicrobials from a business perspective and how large specialty chemical and pharma companies, as well as start-ups are developing their strategies to take advantages to smart antimicrobial opportunities.

Materials and Technology

This report provides complete coverage of the latest materials used to create effective antimicrobial coatings and surfaces. It also discusses the technologies that are evolving that will make such products truly smart. Among the topics analyzed are:

Silver and nanosilver

Copper

Hydrogels

Chitosan

Silanes

Sulfates

Graphene and carbon nanotubes

Role of biomaterials and biotechnology

Combining antimicrobial action with self-cleaning and self-healing

Target specificity

Time release mechanisms

Safety, biocompatibility and environmental/toxicity concerns

Coating requirements for different kinds of surface

Included in this analysis is discussion of how these technologies and materials are being commercialized to produce smart antimicrobial coatings and surfaces.

Applications and Markets for Smart Antimicrobial Coatings and Surfaces

This report also includes an analysis of the application areas where we see smart antimicrobials surfaces and coatings generating significant revenues in the next decade. These include:

Healthcare facilities

Medical implants, surgical equipment and laboratory equipment

Kitchens, restaurants and appliances

Agriculture and veterinary

Other residential, commercial and public buildings

Consumer electronics

Clothing and textiles

Eight-Year Forecasts

This report contains detailed forecasts of the antimicrobial surfaces and coatings market:

Revenue (\$ Millions)

Volume (square meters)

By application

By materials and technology

Strategic profiles

In this report n-tech also examines the product/market strategies of the firms to watch in this space including their current R&D programs. Coverage includes

Dow Corning

DSM Biomedical

Life Material Technology

PPG Architectural Coatings

AK Coatings

Bio-Gate

Dunmore

Lima Corporate/Biosuma

Sciessant

Specialty Coating Systems

The evaluation of antimicrobial coatings and surfaces markets in this report is based on interviews with key influencers in these markets, as well as numerous secondary resources. It also draws on n-tech's insider knowledge of the smart materials business, including smart antimicrobials.

We believe that this report will be invaluable reading for marketing and business development specialists in coatings firms, specialty chemical companies, pharma and the biotech industry.

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