

# Nanocoatings: The Global Market to 2020

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## Abstracts

Presented in a graphical format, this fully updated report provides an easily readable and succinct guide to nanocoatings, their application and markets thereof. In the coating sector, high transparency and new functionalities and high-quality performance are increasingly important requirements and nanomaterials are being increasingly exploited to meet these needs.

Nanostructured coatings and films are witnessing growth in industries such as oil and gas, construction, solar, glass and electronics as they offer significant performance advantages over traditional coatings as well as being more potentially more cost-effective and environmentally friendly.

Properties such as anti-microbialism, product longevity, thermal insulation, gloss retention, dirt and water repellency, hardness, corrosion resistance, flame retardancy, ultraviolet radiation stability, improved energy efficiency, anti-graffiti, self-cleaning, moisture absorbing, gloss retention and chemical and mechanical properties are improved significantly using nanostructured materials.

## Report contents

Nanomaterials utilized in coatings and films including graphene, carbon nanotubes, nano-SiO<sub>2</sub>, nano silver, nano-TiO<sub>2</sub>, nano-ZnO, dendrimers etc.

Market structure and revenues

Key end user markets including energy, aerospace, automotive, textiles, biomedical, marine, exteriors, interiors, electronics & optics

Over 200 company profiles



## Contents

### 1. EXECUTIVE SUMMARY

Nanotechnology is a key driver for new and innovative coating applications and nanocoatings have shown remarkable growth in recent years.

### 2. INTRODUCTION

Nanocoatings types, properties and history.

Anti-fingerprint

Properties, effect, applications and companies.

Anti-microbial

Properties, effect, applications and companies.

Anti-corrosion

Properties, effect, applications and companies.

Abrasion and wearresistant

Properties, effect, applications and companies.

Anti-fouling & easy clean

Properties, effect, applications and companies.

Self-cleaning (Bionic)

Properties, effect, applications and companies.

Self-cleaning (Photocatalytic)

Properties, effect, applications and companies.

UV-resistant

Properties, effect, applications and companies.

Anti-icing

Properties, effect, applications and companies.

Thermal barrier & flame retardant

Properties, effect, applications and companies.

Self-healing

Properties, effect, applications and companies.

Conductive

Properties, effect, applications and companies.

### 3. MARKET REVENUES

Market revenues for nanocoatings, conservatively and optimistically estimated.

Graphene in coatings

Properties, effect, applications, time to market and companies.

Nanotubes in coatings

Properties, effect, applications, time to market and companies.

Nano-SiO<sub>2</sub> in coatings

Properties, effect, applications, time to market and companies.

Nano-silver (Ag) in coatings

Properties, effect, applications, time to market and companies.

Nano-TiO<sub>2</sub> in coatings

Properties, effect, applications, time to market and companies.

Nano-ZnO in coatings

Properties, effect, applications, time to market and companies.

Dendrimers in coatings

Properties, effect, applications, time to market and companies.

#### **4. NANOCOATINGS MARKET SUPPLY CHAIN**

Producers, tools and equipment providers, research labs, intermediate developers and application developers schematic.

#### **5. ENERGY**

Nanocoatings in the energy market, including technology roadmap, applications and companies.

#### **6. AEROSPACE**

Nanocoatings in the aerospace market, including technology roadmap, applications and companies.

#### **7. AUTOMOTIVE**

Nanocoatings in the automotive market, including technology roadmap, applications and companies.

#### **8. TEXTILES**

Nanocoatings in the textiles market, including technology roadmap, applications and companies.

## **9. BIOMEDICAL**

Nanocoatings in the biomedical market, including technology roadmap, applications and companies.

## **10. MARINE**

Nanocoatings in the marine market, including technology roadmap, applications and companies.

## **11. EXTERIORS**

Nanocoatings in the exterior construction market, including technology roadmap, applications and companies.

## **12. INTERIORS**

Nanocoatings in the interior construction market, including technology roadmap, applications and companies.

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