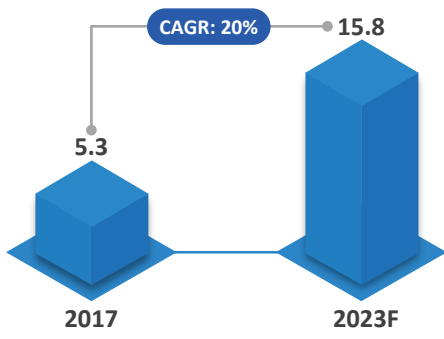


Nanotechnology in Paints and Coatings

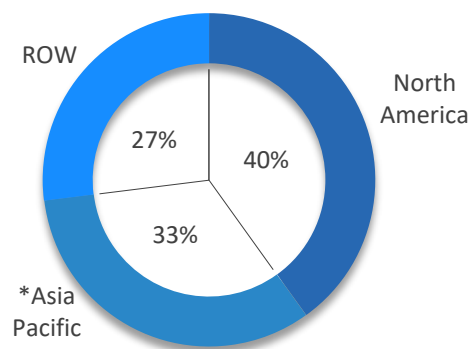
NANOCOATINGS MARKET

GLOBAL NANOCOATINGS MARKET SIZE

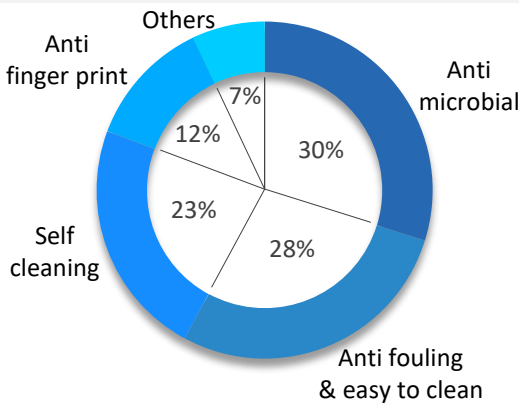
2017-2023F, Figures in USD Billion



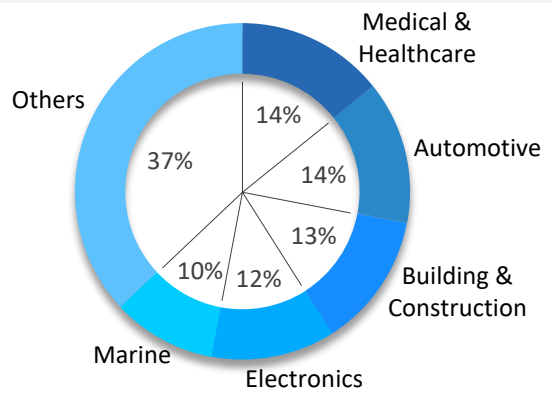
MARKET SHARE BY GEOGRAPHY (2017)



Market Share by Product (2017)



Market Share by Application (2017)¹



COMPETITIVE, REGIONAL & PRODUCT-WISE OVERVIEW

KEY VENDORS



REGIONAL MARKET OVERVIEW

- North America accounted for the highest market share (40%) in 2017
- However, Asia Pacific is expected to grow at the highest CAGR of 32.3% between 2017-2023 due to increasing infrastructure development, low labor costs, growing automobile industry and rapid technological developments
- Adoption of nanocoatings in Europe is expected to increase due to stringent regulations related to VOC emissions released from conventional paints & coatings as well as increasing raw material cost of such coatings

OTHER VENDORS



PRODUCT-WISE MARKET OVERVIEW

- Anti-fingerprint coatings are expected to be the fastest growing segment through 2023, registering a CAGR of ~23.2% from 2017-2023, due to their extensive applications in medical, healthcare and electronics applications
- Anti-microbial coatings are also expected to grow at a CAGR of ~22.9% during the forecast period due to their increasing application in sectors including healthcare, construction, electronics, automotive and medical

DRIVERS AND CHALLENGES



DRIVERS

Low Volatile Organic Compounds (VOC) Emission

Usage of nanocoatings leads to low volatile organic compounds (VOC) emission which makes them a preferred material over conventional coatings

Development in the Emerging Economies

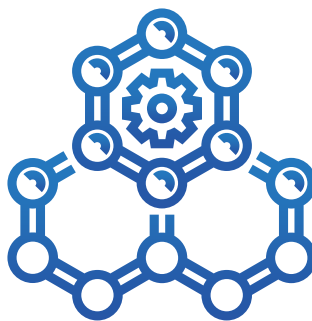
Rapid development in the emerging economies which includes growing construction, infrastructure sectors, steady automobile production and growth in medical technology

Demand for Smart Nano Coatings

Stringent environment regulations in various economies boosts the demand for eco-friendly coatings / smart Nano coatings

Anti-foul and Easy to Clean

Nanocoatings are anti-foul and easy to clean, which reduces time and cost of cleaning and hence draws huge demand from automotive and industrial sectors



CHALLENGES



Nano Particles Instability

Instability of nanoparticles which poses challenge, especially in the packaging application where there is a risk of migration of nanoparticles into food

Technical Challenges

Technical challenges related to the development of advanced and multifunctional nanocoatings that would survive harsh environments, ensure durability and will be eco-friendly

High Cost

Nanocoatings are costly as compared to conventional coatings, hence the manufacturer needs to go for volume manufacturing to cover the cost



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