



CURRENT ISSUE

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Content

Editor's Note

Opportunities for Innovation in Coatings for the Defence Industry

— Prof. Long Lin

Materials science, once a supporting element of defence capability, has become a decisive factor in determining survivability, concealment, and operational endurance on the battlefield.

Market Watch

China and the Global Paint and Coatings Industry 2024-2026f: A Period of Increasing Geopolitical Uncertainty

— George R. Pilcher, Vice President, The ChemQuest Group, Inc., USA

Despite all of the geopolitical problems that have erupted across the globe in the past 12-18 months, whether the ongoing wars in Ukraine and Gaza, the Israeli and U.S. attacks on Iran, the Houthi attacks on transport vessels in the Red Sea, or economic doldrums in EU, the global paint and coatings industry had little about which it could complain in 2024; 2025e (estimated) to date and 2026f (forecast) are expected to be solid if unspectacular.

Construction Chemicals

CO₂ Stability of Oilwell Cements on CCS Wells

— Prof. Dr. Johann Plank, Technical University of Munich, Professorship for Construction Chemistry, Germany

Global warming caused by rising greenhouse gas (GHG) emissions has prompted regulations and actions by many governments to reduce the release of CO₂, the dominant GHG, into the atmosphere. Among the different approaches to reach this goal, carbon capture and (underground) storage of CO₂ (abbreviated as CCS or CCUS) has emerged as a major strategy to solve this problem.

Bio-Based Materials

A Review of Research on Bio-Based Raw Materials and Functional Modification Aqueous Polyurethane

— Professor Hu Jianqing, Yu Lingrui, Yang Yuhao, Zhou Fan, School of Chemistry and Chemical Engineering, South China University of Technology, Guangzhou, Guangdong Province; Dr. Ma Xiaoyang, Chen Zhishan, Qingyuan Gaoxin Huayuan Technology Collaborative Innovation Research Institute Co., Ltd., Qingyuan, Guangdong Province

Bio-based coatings are a new class of coatings made from renewable materials derived from plants, non-food crops, and similar sources. Compared with traditional petroleum-based materials, they offer advantages such as reducing carbon dioxide emissions, decreasing dependence on fossil resources, and promoting environmentally friendly production processes.

Waterborne Coatings

Waterborne Coatings Market Grows on Eco and Tech Demand

— Sally Yick, Managing Editor, China Coatings Journal

The global waterborne coatings market is poised for robust growth, projected to expand from USD 67.9 billion in 2025 to USD 117.1 billion by 2035. This represents a compound annual growth rate (CAGR) of 5.6%, driven by increasing demand for environmentally friendly coating solutions across diverse industries. As regulatory pressure mounts and sustainability becomes a central focus, waterborne coatings are steadily replacing traditional solvent-based alternatives.

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Global Trade Shows, Conferences & Forums

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