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Content

Editor's Note

CHINACOAT2021: A Global Coatings Show Not to be Missed

— Prof. Long Lin

When facing adversity, many fall sadly while others not only survive but also grow stronger. It is clear to me that, over the last couple of years, CHINACOAT's success has shone through the shadow of tremendous challenges cast by the Covid pandemic. It is equally encouraging to see companies proactively working to develop new anti-viral coatings products and working even more closely with customers to charter through the Covid pandemic induced troubled waters of business.

Market Insight

Antiviral Coatings Market Set for Rapid Growth

— Sally Yick, Managing Editor, China Coatings Journal

The global anti-viral coatings market size was valued at \$0.5 billion in 2019 and is anticipated to generate \$1.3 billion by 2027. The market is projected to experience growth at a CAGR of 13.3% between 2020 and 2027, according to figures released by a report published by Allied Market Research.

Polyurethane

One of a Kind in the Polyurethane Toolbox

— Philippe OLIER, VENCOREX, France; Maykin Aungsukiatethavorn, VENCOREX, Thailand

A new bifunctional polymeric isocyanate (BPI) with a specific structure, based on hexamethylene diisocyanate (HDI) has recently been developed. This product has a functionality of 2 NCO groups per molecule as well as a low viscosity (around 150 mPa.s). Other important features include the fact that BPI is classified as a polymer and that it is partially bio-based thanks to the incorporation of a long hydrophobic chain. This product contains 32% of carbon from renewable resources.

Antifouling Coating

Preparation and Research of Hydrophobic and Oleophobic Antifouling Coating

— Dr. Jianqing Hu, Zhimin Zhang, School of Chemistry and Chemical Engineering, South China University of Technology, Guangdong, Guangzhou, P.R. China

Non-toxic and biocompatible monohydroxy-terminated poly(dimethylsiloxane) (PDMS) are introduced into a heavily cross-linked polyurethane system to prepare a polymerbased antifouling coating with excellent performance. It has excellent dynamic wettability, so that stains can be easily removed from the coating surface.

Pigments

Complete Appearance Control for Effect Paint Systems

— Matthew Adby, Portfolio Manager - CP&M, Retail, Appearance & Automotive Products, X-rite, UK

The first generation of special effects paints for automobiles used aluminium flakes to provide what the industry calls "dark and light flop." When such a sample is tilted, its appearance changes. An instrument that has one viewing angle cannot capture all of the effects.

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