



CURRENT ISSUE

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Content

Editor's Note

Coatings Industry Amid the COVID-19 Pandemic

— Prof. Long Lin

Few in the world has not felt the impact of the COVID-19 outbreak. Governments around the world responded to the outbreak in different ways, in their processes exposing foresight, wisdom, decisiveness and humanitarianism in some cases, or the lack of one or more of these attributes in other cases. Hardly ever in history had so much emphasis of importance been placed upon scientists' views by governments.

Market Watch

The Coating Industry Adapts to Help Fight Pandemic

— Sally Yick, Managing Editor, China Coatings Journal

According to spokesmen from different authorities, it is forecasted that COVID-19 outbreak could last a few months to even 2 years in the world, but there is still time to limit impact. The key lies in whether countries have adopted appropriate prevention and control measures to act quickly to help fight the pandemic. Some companies are responding and helping the frontline responders in such a critical moment. Most companies have set the same goal and are trying to use their own capabilities or resources to help fight the pandemic.

Anti-Microbial Technology

Anti-Microbial Coating Strategies for Aircrafts and Airports

— Dr. Ralph Brückner, HECOSOL GmbH, Germany

Airports and airplanes are places where thousands of people meet in a very confined space. This situation enables the spreading of diseases from person to person, and in consequence around the world. A new strategy is presented that aims to reduce the surviving of different types of germs on high touch services. The advantage of TITANO® technology is that it may be administered at any time, to newly produced airplanes as well as to old ones and other highly sensitive areas in airports.

Synthesis and Characterisation of Antibacterial Styrene-Acrylate Emulsions for Polymer Cement Waterproof Coatings

— Dr. Jianqing Hu, Feiliang Dai, School of Chemistry and Chemical Engineering, South China University of Technology, Guangzhou, P.R. China

Methacryloxyethylhexadecyl dimethylammonium bromide (MHDB) was synthesised and incorporated into styreneacrylate emulsions. The properties of styrene-acrylate emulsions modified with MHDB were characterised and compared with those of unmodified ones according to the formulations of polymer cement waterproof coatings. It was found that styrene-acrylate emulsions modified with MHDB exhibited significant enhancement of bacteria resistance and mechanical properties over the unmodified ones.

Colour & Coronavirus

Three Design Superheroes in Coronavirus Times

— Denise Turner, President, Color Turners, USA

Governments are working diligently to combat and find a cure for the novel coronavirus, and while those efforts are important, there's an unassuming and often overlooked dynamic trio ready to help win the fight. They can help to reduce depression and anxiety, decrease fevers, boost the immune system, and even make environments 99% germ free.

Protective Coatings

Phenalkamides – Enabling High Performance and Cost-Effective Low VOC Epoxy Coatings

— Dr. Anbu Natesh, Dr. Hong Xu, Fernanda Tavares, Cardolite Corporation, USA

Phenalkamides are a novel class of curing agents for two-component, ambient cure epoxy coatings and adhesives. Phenalkamides combine performance characteristics of polyamides and phenalkamines in one curing agent while enabling cost effective, lower Volatile Organic Compounds (VOC) coatings formulations.

Performance Enhancing Additives

High Performance, Cobalt-Free Driers for Improved Dry Times and Other Added Benefits in Oxidative Cured Systems

— Kellie Salerno, Technical Service Department, Borchers Americas Inc., USA

Traditional oxidative cured systems have relied on conventional metal carboxylate driers such as cobalt and manganese for decades. Although these surface driers can be efficient in cure rates, they are inefficient in other performance properties. These systems may encounter issues such as yellowing and discolouration, loss of dry over stability, and the required use of secondary driers.

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