



CURRENT ISSUE

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Content

Editor's Note

Post COVID-19 and Long-Term Future Landscape

— Prof. Long Lin

As I write, many countries are experiencing the second waves of COVID-19 outbreak, with the WHO warning that COVID-19 virus will be with the world for a very long time to come. Most, if not all, readers would agree that the COVID-19 pandemic has shown mankind a few cautions that have already led to fundamental changes in the ways in which mankind has lived and worked in the last few decades.

Market Insight

Functional/Multifunctional Coatings, Part 1: Functionality via Management of Surface Energy

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

Terminology has a way of changing over time, even if the concept and objective remains the same. In the mid-1980's, "smart" materials were beginning to be discussed, and the term was shorthand for "responsive" materials. These were materials that responded to their environment. For example, under one environmental condition (e.g., pH, certain wavelength ranges of light, temperature etc.) the material would act in one way, but as that condition changed, the material would act in a significantly different way.

Sustainable Solutions

Greener Powder: Polyester Powder Coating Resin

— Dietmar Fink, Allnex Germany; Alessandro Minesso, Allnex Italy

Polyester made from renewable and recycled raw materials reduce the CO₂ footprint of powder coating technology. Reduced curing temperatures further improve the environmental friendliness of this coating technology.

Functional Coatings

Novel Coronavirus Pandemic Promoting Growth of Antibacterial Coatings

— Xiang Gui Qin, Senior Engineer, Shanghai University of Engineering & Science - Smart Coating Lab, P.R. China

In 2020, the novel coronavirus pandemic hits the world hard, at the same time it has also accelerated the development of antibacterial coatings. At present, almost all of the global top ten coating manufacturers have developed antibacterial products. Likewise, in China, large-scale paint makers such as SKU Paint, Bauhinia, Chenyang, Dulux, Carpoly and Dufang Paint have also launched various types of antibacterial coatings. Together, they represent a market penetration of 47.2%.

Industrial Paint

Hydroxy Acrylic Dispersions to Become Favourite Pick in Industrial Paint

— Prof. Shen Liang, Department of Coatings and Polymers, Jiangxi Science & Technology Normal University, P.R. China

Stricter China environmental regulations have promoted the replacement of traditional solvent-based paints by waterborne ones, which continues to be buzzwords in the areas of coatings R&D and application. Hydroxy acrylic resin, one of the major binders in waterborne industrial paint, can be divided into hydroxy acrylic latex (primary dispersion) and hydroxy acrylic dispersion (secondary dispersion, HAD is the acronym of Hydroxy Acrylic Dispersion).

Measuring in UV & EB Processes

In Situ Monitoring of Curing Reactions with Mid-Infrared Laser Spectroscopy

— Dr. Florian Eigenmann, Dr. Raphael Horvath, IRsweep AG, Switzerland

Fast spectroscopic monitoring is a proven tool in R&D and production environments, where it is used to gain insight to chemical reactions. This application note showcases how the IRis-F1 dual-comb spectrometer can be used to monitor curing reactions, where it can provide invaluable insight on the performance of coatings and adhesives.

Colour

Turn Your Colour into Profit and Productivity

— Denise Turner, CEO, Color Turners, USA

Colour isn't just another pretty face! Research has shown that colour has measurable impacts on a business' bottom line. Equally, while often overlooked in the workday bustle, colours in an office can impact employees' health, safety and productivity. Research has shown that colour has measurable impacts on business results. Colour is an attention-getter! It conveys messages better than any other form of communication. Colour boosts productivity and morale. Best of all, colour helps generate more sales.

Regular Columns

Industry News

- Lomon Billions opens a new sales and technical services office in Shanghai
- Marine coatings market worth \$3.93 billion by 2022
- SABIC names DKSH as a distribution partner in Asia
- Coating additives market size to reach \$11.91 billion by 2026
- The Shepherd Color Company announces new IR black for recycling of black plastic
- Archroma Tianjin named "Green Factory" by Tianjin authorities
- Axalta's 2020 global automotive colour of the year "Sea Glass" makes a splash with electrifying chroma
- AkzoNobel and BYK-Gardner digitise surface texture for powder coatings
- Nouryon expands its facility and production in Ningbo and Brasil
- Evonik: Virtual Formulation Assistant COATINO® officially launched
- Clariant awarded a second CATOFIN™ catalyst contract with Dongguan Grand Resource
- Inorganic colour pigment market to reach \$10.1 billion by 2030
- Global paints and coatings market is projected to grow from USD 147.2 billion in 2020 to USD 179.4 billion by 2025

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