



## CURRENT ISSUE

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## Content

### Editor's Note

#### Outlook for Coatings Industry

— Prof. Long Lin

StartUS Insight suggested the top ten paint and coatings trends for 2024 as "anti-bacterial paint, aerospace paint, natural paint ingredients, self-healing paint, VOC-free compounds, glow in the dark paints, advanced paint equipment, nanocoatings, 3D colour visualisation and fast-drying paints".

### Binders

#### Research on Increasing the Durability of Polymer Coatings Based on Epoxy Rubber Binders

— Prof. Oleg Figovsky & Dr. Nelly Blank, IAI, Israel

In this work, research was carried out to increase the durability of polymer solutions based on epoxy rubber binders from the angle of the scientific theory of artificial building conglomerates. Experiments were conducted with polymer solutions for durability in air and in aggressive environments, chemical resistance, and impact resistance.

### Industry Focus

#### Satisfying Visiting Data Confirms Recovery of the Industry

The three-day CHINACOAT2023 exhibition concluded successfully on November 17 at the Shanghai New International Expo Centre (SNIEC). Its gross exhibition area exceeded 75,800 square meters, increasing by over 60% compared with 2022 Guangzhou Show. After 4 years of absence in Shanghai, CHINACOAT2023 brought 38,623 global visitors back together again and supercharged business opportunities for 1,081 exhibitors around the world.

### Waterproof Coatings

#### Effect of Emulsion Particle Size on the Performance of Polymer Cement Waterproof Coatings

— HU Jianqing & HE Hongjun, School of Chemistry and Chemical Engineering, South China University of Technology, Guangzhou, P.R. China

The study reported here aimed to investigate the effect of the average particle size of styrene-propylene emulsion latex particles in polymer cement waterproofing coatings on their coating properties and the differences in microstructure. Preemulsion semi-continuous seed emulsion polymerisation process was adopted, the same amount of styrene and butyl acrylate were used as raw materials, acrylamide and hydroxyl monomer were introduced as functional crosslinked monomers, and the emulsification system of anionic emulsifier compound was adopted to ensure that the total amount of emulsifier remained unchanged, by changing the emulsifier ratio.

### Industrial Coatings

#### Continuing Demand of Industrial Coatings for Extended Product Lifetime

— Sally Yick, Managing Editor, China Coatings Journal

According to Marketsandmarkets.com, the industrial coatings market is projected to grow from USD 108.1 billion in 2022 to USD 129.2 billion by 2028, at a CAGR of 3.3% between 2023 and 2028. Environmental regulations boost the demand for VOC-free coatings, which is a major factor behind the market's growth.

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