

Preview IST - International Surface Technology 01.2024

FOCUS | PAINTEXPO

PaintExpo 2024

The most important platform for industrial painting technology opens its doors. At the ninth edition of PaintExpo from 9 to 12 April 2024 in Karlsruhe, the painting technology industry and users from the contract coating sector and in-house painting companies will come together to discuss the latest trends and coordinate specific projects. We shed light on the highlights of the trade fair and present the industry's innovations.

Statements on trends and developments in industrial coating technology

Experts from various industrial companies active in industrial painting technology answer the question: "What do you see as the most important trends in the industry and how are you addressing them?".

Trade fair highlights at PaintExpo
Innovations and trade fair highlights from the exhibitors will be published in a comprehensive product report section.

POWDER COATING

Switched to a low-temperature powder coating system

A Qualicoat-certified company with its own powder coating system has been converting all powder coatings to a new low-temperature powder coating system since mid-2023. The oven temperature, which is permanently reduced by 10 °C, saves energy costs, and different material thicknesses can also be coated due to the high over-burning stability.

New plant technology completely electric

An ironworks utilises its own photovoltaic electricity capacity to operate its new pre-treatment and powder coating system in order to reduce CO2 emissions.

WET PAINTING

Lacquering gives guitars a special touch
A manufactory builds exclusive guitars by hand. The lacquering gives the instruments a special touch, both visually and haptically. For many years, two flow cup spray guns have been used and, more recently, a multi-purpose cup system.

NEW TECHNOLOGIES

Three processes in one industrial robot
Lasers and electric arcs offer powerful and sustainable processes for the repair and functionalisation of surfaces. However, conventional systems for structuring or build-up welding are still associated with high investment costs. A research institute has therefore now integrated three processes - laser structuring and laser and arc build-up welding - into a standard industrial robot.

MEASURE AND TEST

Objectively determine gloss
Uniform and consistent gloss is an essential quality feature of a wide range of products. It is therefore necessary to determine gloss objectively. Only what can be measured objectively can be controlled and optimised, which is important in product development and production. There are a few things to bear in mind when measuring gloss.

Dates

Advertising deadline: 03/01/2024
Copy deadline: 03/07/2024
Publication date: 03/28/2024

PARTS CLEANING

Physically dissolve instead of chemically dissolve

A deep-tech company has developed an innovative technology for removing flux from electronic components. The solution, which was honoured with the FiT2clean Award 2023, is based on complex microemulsions that physically lift off organic contaminants instead of dissolving them chemically.

BLASTING

Eight times faster with an overhead conveyor blast machine
Several factors led a Dutch manufacturer of industrial furniture to set up its own paint shop. Thanks to the decision to automate pre-treatment with an overhead conveyor blast machine from the outset, the company blasts eight times faster compared to a manual process.

Contact



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GRINDING AND POLISHING

Safely automate grinding, polishing and deburring

Grinding and polishing surfaces or deburring edges are labour-intensive and costly work steps in almost all areas of industry. One solution is to automate such processes. At the same time, the absolute repeat accuracy of the robotics enables consistent quality to be achieved.

CONVEYOR TECHNOLOGY

Increased efficiency during ongoing operations

A sustainable overall concept for production was important to a provider of energy solutions and services when it optimised its entire production plant. With one particular challenge: the modernisation was to take place during ongoing operations.