

Perfection in Every Way

An exciting example of how modern powder coating technology, sustainable production, and industrial efficiency can work together is currently taking shape in Wehl (Netherlands). A young company there has set up a high-speed production line for steel structures that significantly speeds up the entire production process. Only custom powder coating systems can meet the demands of this modern production environment.

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Ansova Staalcoating B.V. specializes in coating large, extensive, and complex steel components for the construction, industrial, mechanical engineering, and shelving systems sectors. Production is designed to meet high standards in logistics, material flow, and plant engineering. Together with Kansai Helios, a powder coating supplier and system provider for industrial coatings, Ansova is creating a flagship project that combines modern technology, reliable product quality, and continuous innovation. The mission

is: High quality and maximum sustainability combined with high speed and flexibility. This also includes proprietary sustainable solutions such as a coating based on recycled raw materials (Circular layer coating).

High line speeds call for a modern powder coating system

Ansova's new powder coating line significantly speeds up the production process. Standard powder coatings are

often not designed for such high speeds. To ensure a uniform surface finish, stable adhesion, the right choice of reactivity, and a clean finish, powder coating systems must be precisely tailored to the process parameters. Working closely together over several years, Ansova and Kansai Helios have developed customized powder coating systems that not only meet the high demands of the production environment but also satisfy the required quality and sustainability standards.



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High-speed powder coating meets uncompromising quality – even for long and extensive steel components.



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Customized powder coating systems make it possible to balance environmental and economic goals.

Customized powder coating systems

To achieve higher speeds, more components per batch, and more efficient processes, powder coatings are needed that deliver quality, efficiency, and sustainable practices in equal measure. The polyester powder coatings used were precisely tailored to the speed of the production line. Their reactivity enables rapid and complete curing. Even at high material temperatures, the coatings ex-

Technical specifications of the facility

- **Large-capacity oven:** A generously sized curing oven ensures even temperature distribution, also for solid or long steel components. This keeps coating quality consistent even at high throughput rates.
- **Increased throughput and greater hanging capacity:** The crossbeam has been raised from 2.5 m to 3 m. This allows for the coating of large-format steel structures and is rare in the industry. The doubled hanging capacity boosts productivity without compromising quality.
- **Optimized logistics areas:** The plant layout is designed for efficient operations and features clear material flows, ample maneuvering space, and a coordinated connection between pre-treatment, application, and the oven.
- **Energy management with photovoltaics:** A large rooftop photovoltaic system and a container-based battery solution for temporary storage cover a significant portion of the energy demand. This reduces reliance on external energy sources and supports sustainable production.

hibit perfect flow properties. The high opacity ensures a uniform appearance, even on thick steel components.

The optimized electrostatic charging enables high transfer rates with low powder consumption. In addition, the systems can be cured energy-efficiently at 140 °C, which is a critical factor for extensive, large components.

The sustainable Circulayer coating process uses powder coatings made from recycled and renewable raw materials, such as PET recyclates. During application, nearly all of the material can be reused, which reduces waste and environmental impact.

Progress and continuity in the partnership

Product quality is a key factor in the project. Equally important is the close collaboration between the coating facility and the paint manufacturer.

“Over the years of working together, this partnership has clearly proven its worth. It is built on trust, technical expertise, and a shared commitment to continuous improvement,” said Jan Bart van Merksteijn, CEO of Ansova. “The support was outstanding, especially during the setup of our new line in Wehl – ranging from technical advice to hands-on assistance.”

The project demonstrates how a coating company can consistently align its processes with sustainability, efficiency, and user benefits. It also highlights the importance of modern technology, customized product development, and strong partnerships for the advancement of industrial coating. //



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Faster, higher, greener: Doubled hanging capacity increases throughput.

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