A Pasquick® success story: Innovative coating technology for wind energy towers

How Covestro enabled one of the largest contractors in Sweden to increase production while maintaining the highest quality standards.
An upturn for wind turbines

More and more wind turbines are appearing all over Europe. Alucrom AB is a supplier for a large number of these projects. Alucrom AB shotblasted and painted more than 300,000 m² of steel towers in 2008, but the company was finding it increasingly difficult to keep up with demand.

A faster finish speeds up production
Alucrom AB recognised that the only way to stay on top of business was to speed up the production process. It therefore set the coating manufacturer Hempel A/S the following mission: to deliver a system with faster-drying low-VOC paint which would speed up production at the factory in Malmö.

The solution: Pasquick®
Hempel was successful. The manufacturer developed a two-coat system based on a zinc epoxy primer and a topcoat with Pasquick® technology. 75,000 litres of Hempel paint was used during the entire test period and the system is now standard in production. The end client is Enercon Windtower Production AB (EWP). Alucrom delivered six complete towers per week to EWP and gave the enormous towers an exterior coating of DFT 320 µm and an interior coating of DFT 200 µm.

“So far all the parties involved are very satisfied,” says Hempel’s sales consultant, Lars Rosen. “VOC emission have been reduced by 30%, and more sections can be produced per day thanks to the shorter drying time.”

The partnership with EWP has been going since 2008, and Alucrom’s paint shop in Malmö painted all the towers produced at EWP’s nearby factory until 2015. Since 2015, Enercon has been handling the painting operations itself, with the same great results.

For years to come, these wind energy towers will prove the capacity and long-term performance of Pasquick® in the field of corrosion protection.

Object: Steel towers for wind turbines
Substrate: Blasted steel
Coating supplier: Hempel A/S, Denmark
Coating system: HEMPADUR ZINC 17310, Primer 200 µm, HEMAREA ENAMEL 55980, 120 µm Pasquick® Topcoat
Contractor: Alucrom AB, Sweden
Building owner: Enercon Windtower Production AB, Sweden

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