

Case Study

Application: Coatings For Architecture Mouldings



- Proven Reliability
- Superior Performance
- Innovative Technology

Makor curing tunnel model KUREX LED Phoseon FireJet™

Makor successfully installs finishing plant with UV LED profile curing line from Phoseon

At the beginning of 2014 Makor has successfully installed a high technology finishing plant for architectural mouldings at the company BERGENE HOLM in Norway.

The main request from BERGENE HOLM was to have a universal and high performance line in terms of compatibility with various types of profiles (indoor, outdoor, narrow, wide, etc.), very high production speed and low down time for set-up and maintenance.

UV LED Curing Tunnel

The installation included the implementation of a drying tunnel that utilizes UV LED curing technology from Phoseon Technology. The tunnel includes five of Phoseon's FireJet™ FJ200 air-cooled UV LED light sources with peak irradiance of 8W/cm².

The tunnel is used for drying various types of profiles and includes a multiplicity of advantages for the user.

The most significant advantages of UV LED curing include:

- 1) Reduction of heat over the coated substrate (this is very crucial especially on wood).
- 2) Low power consumption and reduced energy costs.
- 3) Process stability: the duration of the light sources offer up to 20,000 working hours at steady performance.

About the Coating Line

The line regularly produces up to 30 profiles per minute 4.2 m. long, a goal never achieved before. Significant configuration was done for each machine to make it all work efficiently.

The coating cycle of the line consists of two coats of paint for indoor profiles (UV100% + WB) and one coat (WB) for profiles for outdoor use. The spraying and sanding machines provided are the most evolved in the market today in terms of sturdiness, ease of use,

continuity of production and low maintenance.

Makor is proud to have been able to meet the expectations

of the company BERGENE HOLM, confirming its technological leadership more in more in the worldwide profile coating.

About Makor

Makor Group organizational structure has three divisions: Profile, Quadrum (Picture Frame), and Panel. Highly specialized engineers work to design machinery of the highest performance standards.

Profile: specialized in finishing machinery and plants for mouldings in general.

Quadrum: offers any kind of finishing solutions for picture frame manufacturers.

Panel: specialized in finishing machinery and plants for panels and panel edges.

For more information visit: www.makor.it/