CASE STUDY

How this Composite Panel Manufacturer Boosted MDF Production Efficiency and Product Quality with Canguard

CHALLENGES

This MDF facility faced a pressing challenge—literally. Slow press speeds were limiting production, and uneven heat transfer led to variability in product quality. Operators couldn't increase speed without risking defects. The plant needed a solution to boost efficiency without compromising quality.

SOLUTIONS

Guardian Chemicals partnered with this customer to test Canguard, a mat spray solution designed to improve heat transfer, reduce press cycle times, and enhance product quality. Canguard was pre-blended at 10% concentration and applied in three levels: 2g/ft², 5g/ft², and 8g/ft² on ¾" MDF. We Monitored: Time to reach boiling (100°F to 212°F), peak temperature in the press core, final surface density, and product quality.

RESULTS

Production Gains

Press cycle times improved significantly, allowing for greater throughput. Improved heat transfer reduced resin cure time.

Improved Surface and Product Quality

Improved top-face quality with zero defects, even at higher spray levels. Reduced need for sanding.

Operator Success

Teams noted that runs were smoother and press speeds more stable.

With **Canguard Mat Spray**, **optimized efficiency, quality, and production output—without adding risks.**

AT A GLANCE

A Medium Density Fiberboard (MDF) Manufacturing facility sought to improve press efficiency while maintaining product quality. By trialing Canguard Mat Spray at varying application rates, they achieved faster heating, improved surface quality, and increased production speed.

KEY METRICS

IMPROVED
SURFACE QUALITY

REDUCED
RESIN CURE TIME AND BOARD DEFECTS

FASTER
PRESS SPEED AND MORE STABLE PRODUCTION RUNS

Ready to Create a Better Future? Contact us Today!

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