

CASE STUDY: High Efficiency Water-Based Solution

Situation:

A leading wind blade manufacturer was unhappy with the quality delivered by a competitor's brand of mould cleaners, sealers and mould release agents. Using a water-based mould cleaner, a solvent-based sealer, and a water-based release agent, the manufacturer found the mould sticking even though the mould was covered with Teflon[®] tape and applying release agents after each demoulding. The manufacturer found the use of a solvent-based sealer unsatisfactory as it wanted to use only water-based products in its manufacturing processes.

Solution:

Chem-Trend accepted the manufacturer's challenge, testing the products they currently used head-to-head against a line of Chemlease® water-based products:

- Chemlease[®] Cleaner
- Chemlease® Mould Sealer
- Chemlease[®] Release Agent

After a thorough cleaning of the mould with the Chemlease[®] product, the Chemlease[®] sealer and Chemlease[®] release agent were applied. Another mould was prepared with the competitor's product according to the manufacturer's recommended procedure. The Chem-Trend products and the competitor products were both applied to a 1 m² (9 square feet) mould plate. The Chemlease® products provided 50% more releases from a single application than the competitor's product. The next test involved using the Chemlease® products in a 37 m (120 feet) blade mould. The release went so well in this test that the manufacturer decided to switch to the Chemlease® products.

Benefits

After finding the right product mix to minimize release agent build up in the

mould and reduce time spent cleaning the mould, the manufacturer is now running a safe, water-based production without any sticking problems. Because of Chem-Trend's willingness to employ its full customer technical service team in resolving the challenges of its customers, Chem-Trend was able to go from testing and developing the right products and service to providing a consistent, problem-free release system in a period of six months.

