

# Coater sees +40% production gain using -50% less chemistry

## The Challenge

Mikon Products, a family-owned liquid and powder paint business in Oxford, Connecticut, needed a phosphate cleaner for use on various substrates with a multitude of unknown contaminants. They also needed to address flash rusting issues before oven drying and wanted to add an in-process corrosion preventative that would not impact paint adhesion.

## The Approach

Hubbard-Hall went on-site to review the company's equipment and process. Ultimately **Mi-Phos 22PW EX** was recommended. **Mi-Phos 22PW EX** is a liquid concentrate that cleans and produces a



Mi-Phos 22PW EX cleans steel, zinc plate, aluminum, and terne plate while adding a tenacious phosphate undercoating all in a single step.

## Executive Summary

**A liquid and powder coater needed a phosphate cleaner for use on various substrates with multiple unknown contaminants.**

- **Mi-Phos 22PW EX** introduced in 2020
- Coater is using 50% less chemistry than before
- Production increased 30%-40% on a per-day basis
- Reduced rejection rates
- Reduced labor needed to correct issues



tenacious phosphate undercoating on steel and some alloys of zinc and aluminum.

Used on zinc plate, aluminum, and terne plate as a cleaner, smut remover, and to prepare surfaces for painting, it cleans and applies phosphate in one step. In addition, Hubbard-Hall recommended Emerald Seal 303, which functions as an in-process flash rust inhibitor. Emerald Seal also provides

additional corrosion protection for metal under paint or adhesive coatings.

## The Outcome

The new cleaner went into production at Mikon Products after an installation process that management described as “went simple and smooth.”

Before changing their chemistry, the company ran sanders 8 hours per day in each department. With **Mi-Phos 22PW EX**, this step was virtually eliminated. More importantly, Mikon found themselves using 50% less chemistry. “Great for us, bad for you,” they joked.

Since changing chemistries, there have been no adhesion or corrosion issues. With a marked reduction in rejects, and less labor needed to correct problems, Mikon Products has realized an overall increase in per-day production of +30%-40%.

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