

## CASE STUDY

# FlexPro® Reduces Bottle Cap Corrosion for Major Brewery

## Background

A large East coast brewery struggled with bottle crown rusting around the skirts of their bottle caps. The brewery's treatment program, which was a zinc/phosphate treatment, did not provide sufficient corrosion protection to prevent visible rust of the bottle crowns at the point of sale. Although the primary cause of the rusting was due to metal-to-metal contact at the crowner, the brewery was looking for an intermediary chemical solution to better protect the crowns until this mechanical issue could be fixed.

## Solution

ChemTreat's Research and Development team performed a pilot study with a pasteurizer simulator that exposed scored bottle caps to the customer's makeup water. The pilot study was able to recreate the conditions of the pasteurizer and reproduce the corrosion experienced by the customer (Figure 1-A). FlexPro® dramatically decreased corrosion in the pilot study (Figure 1-B). After FlexPro®'s success in the pilot study, the customer agreed to run a field trial to test its effectiveness in their pasteurizer.

## Results

FlexPro® proved successful in the field trial. Not only did FlexPro® provide a phosphate and zinc- free solution for this brewery, but it also significantly outperformed the incumbent program. FlexPro® dramatically reduced corrosion of the bottle caps, evident in Figure 2-A and Figure 2-B.

Figure 1: R&D Pilot Study Results

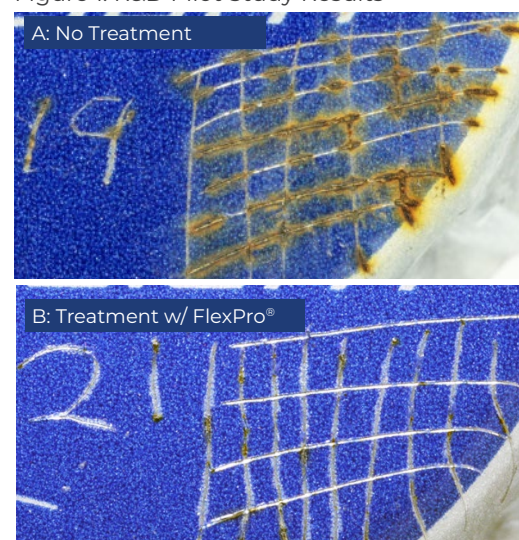
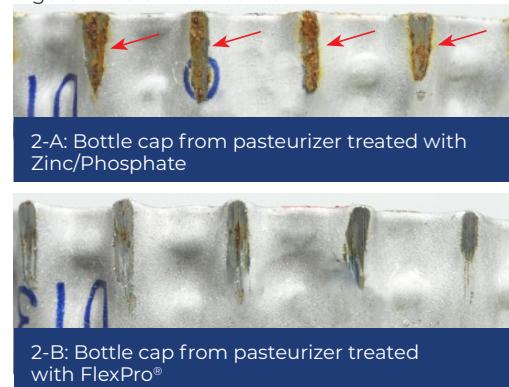


Figure 2: Field Trial Results



Results are examples only. They are not guaranteed. Actual results may vary.

**FlexPro®**