

Constant Leaks Led to Constant Shutdowns...

Until PM Silicone Waterproofed the Plant



SILICONE ROOFING SYSTEMS

Roof Size
85,000 square feet

Substrate
Metal

Location
Leavenworth, KS



Project Overview

As a major cereal processing facility, Cereal Ingredients implements safety precautions with the utmost care. Due to federally mandated health and safety regulations, the facility must maintain a high level of cleanliness while producing its cereals. This is common for all American-based food processing companies and is typically not an issue unless the facility becomes compromised and contaminants begin to enter the processing lines. For Cereal Ingredients, things were going smoothly until their roof began failing, halting production and wreaking havoc on their business.

The Problem

A leaky roof for a manufacturing facility is a major problem. For a food processing facility, it is even worse. To ensure the cereal products were not contaminated, **Cereal Ingredients had to shut down the entire facility every time the roof leaked.** As a facility with two buildings and six food processing lines, constantly shutting down and starting up production was not feasible.

Another problem for the facility was that to replace the roof they would have to shut down completely while the roof was removed. 85,000 square feet of metal roofing is expensive enough to replace and that's not including the cost of shutting down the facility for multiple days (or weeks) at a time to preserve cleanliness. The facility was in dire straits and needed a long-term solution to continue producing high-quality foods at their current demand.



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The Solution

Working in tandem with one of our Certified Licensed Contractors (CLA), the PM team was able to identify all leaky areas and offer Cereal Ingredients a lasting solution:

1. First, the team powerwashed the entire roof.
2. Next, the team spot-applied PM's P-130 Rust Inhibitive Primer to any rusted areas on the roof. Primers are not typically needed with PM silicone roof restorations, but since rust can cause lasting damage to metal surfaces, it's best practice to use P-130 on rust as it almost completely halts its growth.
3. After applying P-130, the team treated all seams and fasteners with PM's FG-401 Flashing Grade Silicone.
4. After prepping the seams, the team applied PM's 3201 White High Solids Silicone Roof Coating.



Monthly energy savings with a white silicone roof will add up quickly!

Final Analysis

With a fully restored roof and a new 20-year warranty, Cereal Ingredients is now prepared for decades of rain and Midwest sun. They no longer have to worry about shutting down their facilities and missing out on valuable revenue. As an additional benefit, their new, white PM Silicone roof will decrease the facilities' energy consumption, saving them money over the years. Between the new energy savings, the savings gained by restoring vs. replacing, and the fact that production continued during the roof tear-off process, **the PM roof restoration has helped Cereal Ingredients significantly decrease spending and increase revenue!**