

Cyclonaire Case Study

Dur-A-Flex Specialty Flooring

Background

With more than 50 years of experience in seamless flooring systems – including primers and sealers, membrane and crack fillers, resurfacers and performance topcoats – Dur-A-Flex is known for its commitment to quality and customer service. Their dedication to testing every product they release to the market and their knowledgeable team of experts determined to match their customer with the best floor or wall coating for the job led to growth for the company. To meet increased demand, Dur-A-Flex turned to Cyclonaire to design and implement a more efficient, less costly system for receiving their raw materials.

Challenge

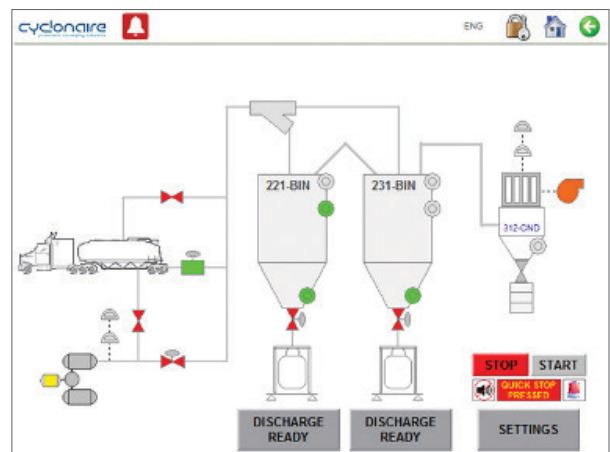
Dur-A-Flex’s receiving layout offered limited space, driving an inefficient process of manually handling 50-pound bags of multicolored sand, a major portion of their raw materials. Cyclonaire was tasked with creating a system to fit in this limited space that could unload specialty sand from trucks, deliver it to day bins and then transport to bulk bag filling stations.

Approach

Utilizing in-house test lab and field data for sand systems, several viable scenarios and rates were discussed. In each case, robust safety controls and convey rate were key factors.

Solution

The 25-ton trucks now unload into twin 7-ton bins, which fill 1-ton bulk bags, and an integrated dust collection system keeps everything clean. The controls package supplied by Cyclonaire allows the truck driver to manually unload the Pressure Discharge (PD) truck while monitoring the bin level inside the building.



*Touch Screen, Human Machine Interface
This design makes operating the system intuitive for the operator.*

Result

The provided solution met the number one priority of the customer: increased safety. The transition from buying skids of 50-pound bags to purchasing in bulk has made the operation safer and cleaner, while also delivering increased efficiency. Due to the success of the solution and the improvements it yielded in cost and efficiency, Dur-A-Flex has plans to further expand its operations.

Cyclonaire worked with us to understand our unique requirements and gave us a user-friendly system built within our narrow constraints and with numerous failsafes in the design. A truly special engineered system for us!

– TJ Vicino, Director of Quality and Continuous Improvement – Dur-A-Flex, Inc.