

# Vacuum Supplier Cleans Up Potential Explosive Problem

## About:

**Equipment Vendor:** DuroVac

**Industry:** Chemical

**Product:** Acro Wax

## Customer Challenge(s):

Honeywell sought an efficient way to contain dust and material spills during its manufacturing process. Due to small gaps in chemical process equipment, wax beads and fines escaped into the facility, creating unsafe working conditions.

Although the wax products used were not harmful to the operators, these materials, when exposed to the proper concentration of oxygen and an ignition source, can be explosive. The facility had several floors with numerous pieces of equipment and needed to ensure the building was safe.

## Customer Comment:

The DuroVac-designed system has been operational for over ten years with no maintenance issues or operational concerns since its installation.

## Vendor Solution

Shamrock Systems worked with DuroVac to design a 20 HP central vacuum package that was installed in the 4-floor building, which allows operators to use the central vacuum to clean up any spills or accumulations of the product on floors, machinery and heat-generating motors. The system included a positive displacement high vacuum generating blower package located in a sound abatement enclosure. Material is collected in a heavy-duty bag house, including a fast-acting explosion protection gate valve plus a flameproof explosion vent. Any product collected in the bag house can be discharged into a bulk bag for reprocessing.

