

SmartWare™ Technology converts pump into a dosing system



CASE STUDY

Challenge

Condor Chimiques manufactures chemical products for the construction adhesives industry. They were dispensing shot sizes ranging from 300 cc to 800 cc into caulking tubes. The customer was using an air motor and older manual adjust-a-stroke shovel pump which required up to one hour of downtime to change shot size. When the material was heated, shot volume varied considerably. The shot variance along with increased maintenance and hard to obtain replacement parts prompted the search for an alternate solution.

Solution

The SmartWare Shot Dispense Kit installed on a Check-Mate® pump with NXT® Technology was installed on the 200 gal (757 l) UniDrum™ supply system. The system was tested using ambient material. Shot sizes were pre-programmed into the display module for ease of changing shot sizes during the production cycle. Graco was able to install the standard SmartWare Shot Dispense Kit on the custom-made UniDrum supply system without requiring additional retrofit parts.

Results

Overall, Condor Chimiques was able to improve their productivity and reduce waste through increased shot size accuracy and by increasing production uptime. SmartWare resulted in approximately +/- 3 cc accuracy on a 300 cc shot size, an improvement over the previous system. The main benefit to Condor Chimiques was the ability to switch from 300 cc to 800 cc shots in roughly 5 seconds by utilizing the electronic display module, compared to a mechanical adjustment which took up to an hour. Smartware gave Condor an extra level of quality control that they didn't have with their previous system, because it displays both the shot size and the amount actually dispensed.



SmartWare allowed Condor Chimiques to improve shot size accuracy and improve production uptime.

For more information, contact us at 1-800-828-7234 or visit us at www.gelcoatsystems.com

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SPECIFICATIONS

END USER

Condor Chimiques (Chemicals)

INDUSTRY

Construction adhesives and sealants

APPLICATION

- Cartridge filling

MATERIAL SPECS

Roof cement

Material Supplier

- Condor Chimiques

Typical Properties

- Viscosity:
 - 150,000- 200,000 cps
- Chemistry:
 - Asphalt based plastic cement

GRACO EQUIPMENT

- SmartWare Shot Dispense Kit installed on a Check-Mate 500 pump lower with a 6500 NXT Air Motor. This was installed onto a 200 gal (757 l) UniDrum supply system.

CONFIGURATION

- Part number: 262375



SmartWare Shot Dispense Kit

Kit contains:

- Local Control Module
- Sensors
- Cables
- Mounting hardware