



CHEMICALS HANDLING

infoBITE

Cement industry - pumping additives into concrete

Hydra-Cell pumps are widely used in the European cement and concrete industry for injecting additives into concrete mixes during production. In a typical application, a mix of water and silica fume (a crushed volcanic ore mined in Sweden) is pumped into a mixing silo, where it is combined with sand and other material to form a high strength concrete.

The pump had to circulate the fluid in the holding tank to maintain the suspension and dose this fluid into the blending silo on demand.

An air operated diaphragm pump was unreliable in this application. It proved costly to run and struggled to handle the heavy suspension. The introduction of a Hydra-Cell G25 pump dramatically reduced power and maintenance costs. It was also far more accurate in delivering a controlled dose of fluid into the blending silo.

Hydra-Cell[®]
Seal-less Pumping Technology

www.wannerint.com



PUMP: G-25

FLUID: 'Silica fume' powder 50%, water 50%.

SP. GRAVITY: 2.5 kg/dm³

TEMPERATURE: 19° C

FLOW: 70 LPM (Dosing) 38 LPM (Circulating)

PRESSURE: 7 BAR (Dosing) 2 BAR (Circulating)

PUMPING ABRASIVES