

Case Study

Eka Nobel, Sweden

Perborate slurry

Perborate slurry is a shear sensitive (thixotropic) product similar to a polymer. It also has a high solids content and an alkalinity of pH 12-14. Unsurprisingly the previously-installed progressive cavity pump suffered major wear problems in this application. The Discflo unit, on the other hand, never once broke down or required spare parts since start up.

With these successful disc pump installations behind them, Eka Nobel decided to replace the pumps at its ceolit plant with Discflo units in November 1995. This plant produces catalysts and chemicals for the paper industry.

Silicon aluminate slurry

Three model 402-14"-2HHDL disc pumps are installed for feeding silicon aluminum silicate slurry to a filter press. Each pump operates at a capacity of 25 m³/h [110 GPM] at an initial pressure of 3.5 bar [51 psi], increasing to 6 bar [87 psi]. The slurry has a high solids content of 20-25%, with a specific gravity of 1.25, and a high acidity of pH 1.0 - 1.4. The plant previously used progressive cavity pumps for this severe application and were plagued by wear and operating problems.

The disc pumps, on the other hand, have performed very well. Since start up, Eka Nobel reports that all three pumps have been operating without any problems. The engineers at the ceolit plant are planning to install additional Discflo pumps in the early part of 1999 to replace hose pumps.

Update July 2001. Discflo's distributor in Sweden, Pumptechnik, reports that all the pumps employed at Eka Nobel plants are still running without any problems.



Call Discflo now to find out how our pumps can solve your problems.

Discflo Corporation

10850 Hartley Rd
Santee, CA 92071
Phone: (619) 596-3181
Fax: (619) 449-1990
Sales@Discflo.com
www.Discflo.com