

# Testimonial : Central Vacuum Conveying

## DUROMER PRODUCTS PTY. LTD.

A.B.N. 64 001 125 088

Phone: + 61 2 9743 0355

Facsimile: + 61 2 9743 0273

## DUROMER PRODUCTS TESTIMONIAL

Duromer Products Pty Ltd, of Rhodes NSW specialise in the formulation, manufacture and marketing of engineering thermoplastic resins.

Many of these resins can contain up to 50% glass fibre, which makes the plastic pellets highly abrasive. This results in excessive wear on process machinery and ancillary equipment.

Traditionally, manufacturers and processors of fibre filled resins have steered clear of central vacuum conveying systems due to high wear on vacuum receivers and long radius bends and most suppliers of conveying systems have no solution.

"To provide optimal service to our customers, downtime must be avoided at all cost says Director, Wayne McDonald. We approached Flemings for a materials handling system that would withstand the highly abrasive nature of our materials and eliminate the continual maintenance and down time we were experiencing."

The solution Fleming Plastic Pty Ltd presented to us was a wear resistant central vacuum conveying system from Labotek and an innovative piping system from Hammertek capable of meeting our full plant capacity without the unacceptable downtime caused by wear.

Labotek used their **LT6** central vacuum station which offers very high vacuum with low material velocity ensuring throughput was met while material speed was minimised to reduce pipe wear.

Next the Labotek vacuum receivers were fitted locally by Fleming's with new inlet deflectors that had undergone a metal spraying treatment known as **HVOF**, which sprays carbon tungsten at high velocity to the surface of a mild steel inlet deflector. "These HVOF inlet deflectors are working extremely well, they show no visible wear after 3 months of full production, while previous stainless steel and ceramic coated versions lasted only 24 hours."

The material piping system comprised of standard 50mm stainless steel tube and Hammertek smart elbows. The **Hammertek** smart elbows take the impact out of the bend by directing the product to turn the corner by deflection rather than bouncing off the wall of a conventional sweep bend. The result is typically 6 times the life of traditional ceramic sweep bends and greatly reduced product degradation. "We have inspected the Hammertek bends at 3 months and again at 6 months and I still can not identify any visible wear."

The combination of the above design features and the continual support and expertise of the Fleming team has resulted in a cost effective solution to our material conveying needs that we were unable to find elsewhere.

Yours sincerely,

Wayne D. McDonald  
Director.