



press release

**FOR IMMEDIATE RELEASE – 27 March 2008**

**Amarinth turns the most problematic pump at  
Polimeri Europa into its most reliable**

**Amarinth, a leading company specialising in the design, application and manufacture of pumps and associated equipment, has underlined its innovative engineering skills with an advanced impeller and pump design for Polimeri Europa that allows latex coagulate to be pumped reliably thereby reducing equipment maintenance costs by a massive 83%.**

Polimeri Europa is one of the major world producers of elastomers. The pumping of latex presents a particular difficulty because of its adhesion and coagulation properties. A high cost maintenance regime requiring numerous built up spare pumps, stand-by pumps and regular labour intensive overhauls and cleaning was used to keep process lines running. Pumps were changed as often as every shift during certain product batches.

With no standard products available in the market that could resolve the issues, Polimeri Europa turned to specialists Amarith to optimise a design which would include special features outside of their standard catalogue. The design parameters were for a pump that could run for three weeks before requiring any maintenance.

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Starting with its proven and reliable N-series pump, Amarith applied its wealth of skills and state-of-the-art computer equipment to design a scalloped impeller that would minimise clogging of the latex. An electro-polish was then applied to both the impeller and the backplate to create low friction surfaces. A removable front suction cover was designed to enable quick access for cleaning and finally a specially adapted mechanical seal was added to contain the latex coagulate.

The new pumps were delivered on-time and are exceeding all design expectations on this very demanding application. Labour costs are down by 85% and overall costs are down by 83%. These cost savings in both parts and labour has meant that the pumps have paid for themselves in under a year.

Despite having surpassed the original specification, Polimeri Europa was keen to further develop the design and achieve even better performance. Ideas were jointly developed between engineers from Amarith and Polimeri Europa and following FEA analysis by Amarith it was found that further small modifications to the impeller and backplate could dramatically increase performance.

Andrew Maxwell, Plant Engineer Materials at Polimer Europa, has worked closely with Amarith on this new design and commented: "I have been impressed by Amarith's repeated willingness to further develop and improve this product. Working with them and developing innovative ideas has been a very productive and rewarding experience. The cost savings generated for Polimeri Europa have been considerable and have turned one of our most problematic maintenance issues into one of our most reliable."

Polimeri Europa now has a pump that has run for six months without the need for any maintenance or cleaning – much longer than the original three week design brief. As an additional bonus the most recent design changes are also delivering significant energy savings.

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### **OPTIONAL PANEL or BOX ITEMS**



Scalloped and electro-polished impeller



Andrew Maxwell, Plant Engineer Materials at Polimeri Europa

## NOTES TO EDITORS:

Founded in 2002, Amarith has harnessed the skills, creativity and passion of people who have worked in the pump industry for many years. Amarith delivers world-leading expertise in the design, application and manufacture of centrifugal pumps and associated equipment to ISO, ANSI & API standards, primarily for the industrial, chemical & petrochemical markets. Their portfolio includes:

- **Pumps:** Horizontal and vertical API 610 pumps, chemical and industrial pumps, many of which are interchangeable with the Girdlestone pump ranges, eliminating the need for expensive modifications when replacements are required.
- **Pressure Vessels:** Protect System Plan 52 and 53A and 53B sealant systems with inbuilt condition monitoring for pumps and mixers that are suitable for Safe area up to Zone I.
- **Spares & Service:** High quality, fast lead-time re-engineered spare parts to improve performance and extend pump life, including many which are directly interchangeable with the Girdlestone pump ranges.
- **Packages & Modules:** Condensate Recovery Units manufactured for Spirax Sarco incorporating the innovative Ci-Nergy intelligent variable speed control system, plus bespoke packages & skids built to order.
- **Business Systems:** state-of-the-art e-commerce technologies that deliver 24/7 support enabling customers to select pumps and place orders on-line and then track every stage of manufacture through to delivery, any time, anywhere in the world.

The company operates globally from its base in Rendlesham Suffolk, United Kingdom and has a customer base of world-leading companies, including BP, Shell, ExxonMobil, GlaxoSmithKline, Pfizer, Spirax Sarco, Diageo, AMEC, Fluor and Halliburton.

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