

Furmanite Leak Sealing



Case Study

Furmanite Produces £Multi-million Savings for Esso

Here's the scenario faced by Furmanite technicians. Esso's Unit 1 boiler at Fawley was shut down for repair. The Unit 2 boiler had developed a superheater tube leak. The challenge was to carry out a repair; the alternative was a shutdown of the major processing units.

Full Steam Ahead

There was more bad news for Steve Fenwick and his team. The primary superheater tube leak was directed in the worst possible place - in dead space 102ft above ground level. Plus it was directing 1690psi of steam onto an adjoining tube.

The Perfect Result

The solution was an erosion shield installed by Furmanite's Clive Peat who crawled into this lethal confined space in an air-cooled suit. After three days of planning and just two hours the process was complete. The result?

The world's first repair of this type to an on-line boiler. And a multi-million pound saving for Esso.



Under pressure leak sealing technology geared to maximise asset uptime

Pioneering leak-sealing technology. Unrivalled on-site service. It's this unique combination that gives Furmanite the edge.

From our first on-line leak sealing patent in 1927, we've continually delivered groundbreaking solutions. And since the launch of our on-site service in 1967 we've continually provided the highest standards of service to customers across the globe.

In the UK alone we have nearly 2 million man-hours of leak sealing experience. What's more, with extensive engineering field support facilities and written procedures that conform to all national and international quality standards we have the strength in-depth to succeed.

Keep producing the goods

The priority for every industrial plant is to stay on-line. At Furmanite we help maximise up-time by sealing leaks under pressure. This means you keep producing the goods while we deliver solutions to leak based problems.

You save time, you save energy and you save money. And with reduced noise levels and erosion levels and increased plant safety, it pays to contact Furmanite.

Serving every sector

- Fossil, hydro and nuclear power generation
- Refineries and petrochemical plants
- Iron and steelworks
- Marine and offshore
- Pulp and paper plants
- Food Industry
- Space Industry

FURMANITE™

MAXIMISING ASSET UPTIME

Case Study

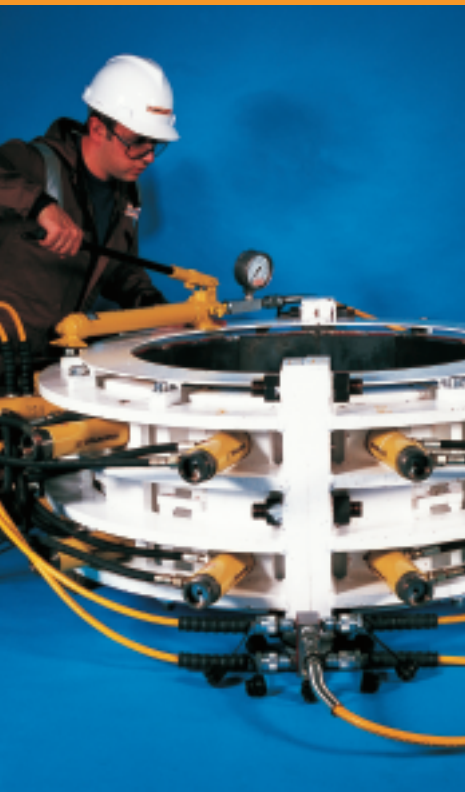
Furmanite Innovation Adds Strength at ICI Billingham.

A routine de-lagging of the ICI MM8 plant at Billingham created yet another new challenge for Furmanite. Severe internal erosion caused by sulphuric acid had holed the outer shell and thinned the surrounding area. The solution? The injection of a compound of Potassium Silicate that solidified on contact with sulphuric acid.

Off line. On target.

The Furmanite team, working closely with ICI, drilled, filled and tapped a series of holes before seam welding a patch onto the damaged area. Finally more compound was injected into the void between the shell and the patch to create a successful seal

Hydraulically operated repair clamp



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Fitting a ring clamp

Developing new techniques. Creating benefits.

Whether it's steam, hydro-carbons or gas - including over 300 types of chemical - at temperatures ranging from sub-zero to 600°C and at pressures up to 350 bar g Furmanite offers leak-sealing solutions.

From low cost banding or peened wire for narrow gap flanges and bonnets to solutions based on ring clamps or box enclosures, we'll advise you on the alternatives. And If there isn't a solution, we'll create one. In fact, almost every leak sealing technique used today was first developed by Furmanite.



Peened wire repair

Working for a better environment

- At Furmanite, we take practical action to protect the environment.
- Our solutions maintain the integrity of your process systems
- Our goal is to extend the life of your plant components
- Keeping systems on-line reduce the effects of potentially harmful and polluting fugitive emissions on the atmosphere
- Repair rather than replace avoids unnecessary re-manufacturing and replacement

Furmanite East Asia Ltd.

Units A & B, 18/F, Nathan Tower,
518-520 Nathan Road, Kowloon, Hong Kong
Tel: +852 2388 3366
Fax: +852 2388 5023
E-mail: sales@furmanite.com.hk

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www.furmanitehk.com