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Belzona 5851 prevents condensate-vessel corrosion

A Belzona Polymerics product story

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Edited by the Processingtalk editorial team **Jun 11, 2009**

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The Belzona online CUI solution has enabled global energy-giant Total to reduce the asset life costs of a number of vessels at its Lindsey Oil Refinery, Immingham.

The initial application at this site remains in good condition, protecting the asset well into its eighth year in service.

In 2001 the client identified areas of corrosion under insulation (CUI) on an outdoor **condensate** vessel.

Left untreated the corrosion could have caused substantial damage but the client did not want to shutdown.

Emlyn Robert, planned works engineer for the Total Lindsey Oil Refinery, said: 'We really wanted to avoid taking this off-line for any substantial period of time but this was not possible with alternative solutions.

'Also we needed to avoid abrasive blasting of the vessel shell while online.

A solution was needed to enable production to continue without risk of deterioration and failure of the vessel, as this would have forced shutdown, costing millions.

The solution came in the form of Belzona 5851(HA-Barrier).

Belzona 5851(HA-Barrier) is a single-component system for protecting metal surfaces subject to CUI.

This heat-activated material can be applied directly onto hot surfaces (70-150C/158-302F) with minimum surface-preparation, avoiding production downtime.

Once cured, Belzona 5851(HA-Barrier) provides outstanding corrosion protection.

In addition, this solvent-free solution provides good impact, abrasion and chemical resistance.

Prior to the application, the areas to be coated were prepared with hand and power-wire brushing tools to remove corrosion.

Total's contractors then applied Belzona 5851 in-situ, directly to the vessel, at a temperature of between 90 and 100C (194 to 212F).

During the application Belzona provided training to Total's contractor team.

The contractors found the product easy to use, as it required no special equipment and could be applied by brush.

This helped to ensure the work was completed within the original timescale.

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