

Case Study

Angola LNG Pipeline



LONG LASTING ANTI-CORROSION – WE'VE GOT IT COVERED

Substrate: Mild steel pipes.

Requirements: Internal flow coating to assist smooth flow of gas.

Specifications: Blast clean to SA 2.5 then apply P100 flow coat to nominal thickness of 75 microns DFT.

Area coated: Complete internal area of each pipe.

Client: BSR Corus, Hartlepool.

Main contractor: Total Oil and Gas.

Consultant engineer: None.

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THE PROJECT

Tasked with transporting gas from offshore oil and gas production facilities to onshore LNG process facilities; the Angola LNG pipelines require high performance coating solutions which aid the smooth flow of gas within the pipeline.

Leighs Paints' P100 coating was selected to provide an internal flow coat for two projects. The first consisted of a 78 kilometre long section of pipeline, which incorporated pipes of various diameters including 18", 22" and 24" with a length of 12.3 metres per section.

The second, the Angola Block 17, consisted of an 80 kilometre long section, with a diameter of 24" and a length of 12.3 metres per section.

To date Leighs Paints has supplied 50,000 litres of P100 across both projects to provide long-term protection against corrosion.

THE SYSTEM

The selected system consisted of a single coat of P100; a two pack epoxy primer/finish flow coat, designed specifically to protect the substrate against corrosion.

The internal surface of the pipes was blast cleaned to SA 2.5, leaving an average profile of between 40 and 70 microns. P100 was then applied in red oxide to a nominal thickness of 75 microns DFT (Dry Film Thickness).

The coating was applied using airless spray equipment, with the nozzle held stationary whilst the pipes were rotated.

P100 was selected for its reliability and proven track record; tested both in our onsite test centre and by third parties, ensures that it performs when you need it most.

Coupled with the support of our experienced Technical Services team and our leading Supply Chain unit, we provided a high quality product, with a rapid turn around that ensured the product was delivered on time and in full.

